



Vidya Jyothi Institute of Technology

(An Autonomous Institution)
(Accredited by NAAC & NBA, Approved by AICTE, New Delhi & Permanently Affiliated to JNTU(H))
Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Computer Science and Engineering

Ref: VJIT/CSE/VAC/2019-20 /3

Date: 16-12-2019

CIRCULAR

The Department of Computer Science and Engineering in association with CISCO Networking Academy is planning to conduct certification course on "Programming Essentials in Python" for the benefit of II & III B.Tech (Semester-II) students. This could be scheduled from 2nd Jan 2020 – 2nd April 2020 with 70 hours duration. The interested students can enroll for the course by 23rd Dec 2019.

All the registered students must attend the class without fail. The following faculty members are assigned to handle the course as instructors.



S.No.	Name	Designation
1	D Venkateshwarlu	Associate Professor
2	A Swarna	Associate Professor

Students who are completed the course successfully with 65% only get certificate from the Python Institute, Open education and Development group.


HqB

Copy to:

1. The Principal Office
2. Notice Board
3. II & III B.Tech Students



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Department of Computer Science and Engineering

Course Syllabus Programming Essentials in Python

Course Outcomes:

After completing this course the student must be able to

1. Implement the programming skills in core Python
2. Apply built-in methods of strings, sequences and regular expressions in real time applications
3. Understand the object oriented programming techniques.
4. Demonstrate the concepts of object oriented programming.
5. Develop file manipulation and exception handling skills.

PART 1: BASICS

Basics I

Your First program, The print() function – how the computer talks to you, The print() function – formatting the output

Python literals – integers, floats, strings, Boolean values

Operators - Data manipulation tools, Operators and expressions, Arithmetic operators, Operators and their priorities, Operators and their bindings

Variables – data-shaped boxes, how to name them, Variable names vs. Python keywords, How to assign a variable, How to comment your code, Shortcut operators

How to talk to computer - Output vs. input, How to input data with the input() function, How to convert strings into numbers, Some simple interactive programs, String operators, How to convert numbers into strings

Basics II

Making decisions in Python - How to ask questions and how to get answers, Relational operators

Making use of the answers, Conditions and conditional execution – the if statements, How indentation makes the code, the more conditional execution – if-else statements, the elif clause, some simple examples

Python's loops - Looping your code with while, Looping your code with for, Controlling your loops with break and continue

Logic and bit operations in Python - Computer logic and its operators, Logical values vs. single bits, Bitwise operators, How to deal with single bits

Lists – collections of data - why do we need them so much? How to create a list, How to use a list, Removing elements from a list, How not to use a list, List methods – methods vs. functions, Adding elements to lists, Making use of lists, The second face of the for loop, Lists in action

Sorting simple lists – the bubble sort algorithm

Lists – some more details - How lists are stored, Slices – the powerful tools, The in and not in operators, Lists in advanced applications, Lists in lists, The list comprehension: why and how, Lists in lists – matrices, 3rd dimension

Basics III

Writing functions in Python - Functions: why do we need them? Where do functions come from? Your first function

Always

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How functions communicate with their environment - Parametrized functions, How to define and use function parameters, What is shadowing? Positional arguments, Keyword arguments, Mixed arguments, Setting parameters' default values

Returning a result from a function - A function's effects and results – the return statement, Returning a value, The None value, Returning the non-None value, Argument vs. parameter compatibility, A list as a function's result

Scopes in Python - Functions and scopes, How do scopes work? How to make a variable global, How the parameters interact with their arguments

Creating functions - Some exercises with designing and writing functions, Recursion – how to make a function more powerful?

Tuples and dictionaries - Sequence types and mutability, What is a tuple? How to create a tuple, How to use a tuple, What is a dictionary? How to make a dictionary, How to use a dictionary, How a dictionary and a tuple can work together

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PART 2: INTERMEDIATE

Intermediate I

Using modules - What is a module? How to make use of a module? Importing a module

Some useful modules - Working with standard modules, some functions from the math module, Some functions from the random module, Some functions from the platform module

What is a package? - Modules and packages, Your first module, Your first package

Errors – a programmer's daily bread - Errors, failures, and other plagues, Exceptions

The anatomy of an exception

Some of the most useful exceptions

Characters and strings vs. computers

The nature of Python's strings

String methods

Strings in action - Comparing strings, Sorting strings, and not only strings, Strings vs. numbers

Four simple programs - Caesar's cipher – the coder, the decoder, Extracting numbers from a line of text, Checking the IBAN

Intermediate II

Basic concepts of object programming - What is an object? The object – what is it again? What does an object have? Your first class

A short journey from the procedural to the object approach - What is a stack? The stack – a procedural approach, The stack from scratch

Properties - Properties in detail, Instance variables, Class variables, Checking an attribute's existence

Methods - Methods in detail - The inner life of classes and objects, Reflection and introspection – two names of the same phenomenon, Investigating classes – what can we find out about them?

Inheritance – one of object programming foundations - How Python finds properties and methods, How to build a hierarchy of classes, Inheritance vs. composition, Single inheritance vs. multiple inheritance, Diamonds and why you don't want them

Exceptions once again - Exceptions are classes, Detailed anatomy of an exception, How to create our own exception, How to use your own exception

Generators and closures - Generators – where to find them, The yield statement, How to build your own generator, More about list comprehensions, The lambda function, How and when to use lambdas

Processing files - Accessing files from Python code, File names, File streams, File handles, Opening the streams, Selecting text and binary modes, Opening the stream for the first time, Pre-opened streams, Closing streams, Diagnosing stream problems

Working with real files - Dealing with text files, How to work with binary files, How to read bytes from the stream, How to write bytes from the stream, Copying files – a simple, but functional tool

A. K. Reddy
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Department of Computer Science and Engineering

Certification Course - "Programming Essentials in Python"

List of Registered Students(2019-20)

S No	Roll no	Name
1	18911A0501	A. ARCHANA
2	18911A0502	DHARANI YADAV
3	18911A0504	A.HARI SHANKER
4	18911A0505	AKSHAT AGRAWAL
5	18911A0509	B RAMU
6	18911A0511	CH CHARAN
7	18911A0513	DASARI PAVAN
8	18911A0515	D PRAHARSHA
9	18911A0518	G AASHRITHA
10	18911A0519	G SRILEKHA
11	18911A0522	K ASHRITHA
12	18911A0523	HARITHA RATHNAM
13	18911A0527	K ALEKHYA REDDY
14	18911A0533	DILEEP KUMAR
15	18911A0534	HARSHITHA REDDY
16	18911A0541	N THARUN REDDY
17	18911A0542	P SAHITHI
18	18911A0543	P YASHASVI REDDY
19	18911A0547	P PAVAN KALYAN
20	18911A0548	MALIK BASHA
21	18911A0550	R PAVAN SRIVATSA
22	18911A0554	S LAXMI SRINIJA
23	18911A0556	S KISHORE KUMAR
24	18911A0557	SUPRIYA REDDY A
25	18911A0559	V VAMSHI KRISHNA REDDY
26	18911A0563	A SHREYA
27	18911A0565	NIKHITHA B
28	18911A0566	B ADARSH
29	18911A0568	SAI ARUNA CH
30	18911A0569	D RAJESWARI
31	18911A0571	D MALATHI
32	18911A0572	G.SAI SHUBHANKH
33	18911A0573	G SRAVANTHI
34	18911A0577	I SAI SOWMYA
35	18911A0585	K SRAVANI
36	18911A0586	K HONEY
37	18911A0587	M SAHITHI
38	18911A0590	M SUSHANTH
39	18911A0596	Y NAVEEN KUMAR
40	18911A05A3	P PRANAV
41	18911A05A6	T PRIYANKA
42	18911A05B6	T NAGA SAI SIVANI
43	18911A05B7	V BHUVANESHWARI

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Stamp: Vidya Jyothi Institute of Technology, Hyderabad-500 075



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Department of Computer Science and Engineering

44	18911A05B9	Y SAI SITA MANOJNA
45	18911A05J1	A PAVAN KALYAN
46	18911A05J2	AKSHARA MADHUSUDHANAN
47	18911A05J5	KARTHIK KUMAR B
48	18911A05J6	ABHILASH B
49	18911A05J9	GOWTHAMI CH
50	18911A05K1	RAKESH CH
51	18911A05k2	D SHRUTHI
52	18911A05K4	G. SAI DINESH
53	18911A05K6	SRI SATYA KIRAN
54	18911A05K7	K BHARATH
55	18911A05K8	K SHIRISHA
56	18911A05K9	K SUDHEER
57	18911A05L8	ROHITH
58	18911A05M0	MJ PRAKASH
59	18911A05M2	N HARIVARDHAN REDDY
60	18911A05M6	P SURAJ
61	18911A05M7	PIYUSH M
62	18911A05M9	MANASA P
63	18911A05N2	RASHMEET
64	19915A0501	A RAMREDDY
65	19915A0505	SAI TEJASWI G
66	19915A0506	G SUCHARITHA
67	19915A0518	SANDEEP PATEL
68	18911A0508	A SAI CHANDANA
69	18911A0555	S SAI BHAVANA
70	18911A0576	G VIJAY
71	18911A0582	K PRASHANTH REDDY
72	18911A05J4	A.VIDHYA SAGAR
73	19915A0519	R SHRAVANI

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HOD

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PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

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- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

A Archana

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

10 Mar 2020

Date

AKARAPU SWARNA

Instructor


Type text here

Instructor Signature

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Dharani Yadav

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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10 Mar 2020

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AKARAPU SWARNA

Instructor

Instructor Signature

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A.Hari shanker

Student

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Academy Name

India

Location

3 Mar 2020

Date



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Akshat Agrawal

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

24 Feb 2020

Date

AKARAPU SWARNA

Instructor


Instructor Signature

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Babinolla Ramu

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

23 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Biroj Charan

Student


VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

28 Feb 2020

Date 

AKARAPU SWARNA

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Instructor Signature

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Dasari Pavan

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date

AKARAPU SWARNA

Instructor

Instructor Signature

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Devarakonda Praharsha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

25 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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Aashritha Geddam

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

14 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

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Srilekha Ginna

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

2 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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Karanam Ashritha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

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14 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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haritha rathnam

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

10 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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Alekhya Reddy Kodumuru

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

27 Jan 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

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Dileep Kumar

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

28 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Harshitha Reddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Nalabolu Tharun Reddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

27 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Sahithi Pabba

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

31 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Yashasvi Reddy Palla

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

10 Mar 2020

Date

AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Pilli Pavan Kalyan

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

29 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Malik Basha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

25 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Rajuladevi Pavan Srivatsa

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

29 Feb 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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Solleti Laxmi Srinija

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

10 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
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Sunke Kishore Kumar

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

1 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
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Supriya Reddy Attapuram

Student


VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

9 Mar 2020

Date 

AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Vattijonnala Vamshi Krishna Reddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

28 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
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Ayireddy Shreya

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

7 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
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Bijjala Nikhitha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

3 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
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Adarsh Bondugula

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

11 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Sai Aruna Challa

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

5 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Depala Rajeswari

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

11 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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- the means by which to resolve typical implementation problems;
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Donthula Malathi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

3 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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G.Sai Shubhankh

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

23 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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gandham sravanthi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

8 Mar 2020

Date

AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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Inavolu Sai Sowmya

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India


Location

4 Mar 2020

Date

AKARAPU SWARNA

Instructor


Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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sravani koppolu

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

24 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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Honey Karem

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

9 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

Type text

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
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By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Madishetti Sahithi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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Sushanth Mogili

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

3 Mar 2020

Date

AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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Naveen kumar Yamarthi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

11 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
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Pranav Pisipati

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

Priyanka Tiwari

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

5 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Tutika Naga Sai Sivani

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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Valapatla Bhuvaneshwari

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Yakkaladevara Sai Sita Manojna

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

3 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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A PAVAN KALYAN

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date

AKARAPU SWARNA

Instructor

 Type text here

Instructor Signature

PCAP: Programming Essentials in Python

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Akshara madhusudhanan

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

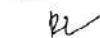
Location

5 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

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Bodige Karthik kumar

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

4 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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BONAGIRI ABHILASH

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

5 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Gowthami Chikatipalli

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

5 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Rakesh Ch

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

8 Mar 2020

Date

AKARAPU SWARNA

Instructor


Type text here

Instructor Signature

PCAP: Programming Essentials in Python

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darwaja shruthi

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

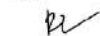
Location

11 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

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G. Sai Dinesh Reddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

7 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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SRI SATYA KIRAN KAKILETI

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

10 Mar 2020

Date


Type text here

AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Kamalapur Bharath

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

5 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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Kolle Shirisha

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India


Location

1 Mar 2020

Date

AKARAPU SWARNA

Instructor


Instructor Signature

PCAP: Programming Essentials in Python

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sudheer kondra

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

5 Mar 2020

Date

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Instructor

Instructor Signature

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Rohith Reddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

1 Mar 2020

Date  Type text here

AKARAPU SWARNA

Instructor

Instructor Signature

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mjprakash naidu

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

16 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

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naregudam harivardhan reddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

5 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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pasham suraj

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

6 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Piyush M Pethkar

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

28 Feb 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Manasa Pullagurla

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

12 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

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Rashmeet Kaur

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

14 May 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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Abbu Ramreddy

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

10 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

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sai tejaswi g

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

28 Mar 2020

Date

AKARAPU SWARNA

Instructor



Instructor Signature

PCAP: Programming Essentials in Python

During the Cisco Networking Academy® course, administered by the undersigned instructor, the student has studied the following skills:

- the universal concepts of computer programming (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools, developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programming and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programming techniques, best practices, customs and vocabulary, including the most common library functions in Python 3.

This Statement of Achievement acknowledges that during the course PCAP: Programming Essentials in Python, the student has been able to accomplish coding tasks related to the basics of programming, and understands the programming techniques, customs and vocabulary used in the Python language.

By completing the course, the student is now ready to attempt the qualification PCAP – Certified Associate in Python Programming certification, from the OpenEDG Python Institute.

sucharitha g

Student

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

Academy Name

India

Location

31 Mar 2020

Date



AKARAPU SWARNA

Instructor

Instructor Signature

PCAP: Programming Essentials in Python

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sandeep patel

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Academy Name

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10 Mar 2020

Date

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Instructor Signature