

Date : 25th - 08 - 2020

Morning Session : 9am – 11.00 PM

By ~ Rohan Kumar

Topics: Python Basics

What is programming?

“Instruct the computer” this basically means that you provide the computer a set of instructions that are written in language that the computer can understand. The instructions could be various types for Example:

- Adding numbers
- Rounding of numbers, etc.

Computers understand instructions that are written in syntactical form called a programming language.

A programming language provides a way for a programmer to express a task so that it could be understood and executed by a computer.

Some of the popular Programming Languages are **Python, C, C++, Java , etc.**

Why Python?

Readable and Maintainable Code

Syntax easy

Unlike Other Programming Languages, emphasize on code readability

Allows to use english keywords, instead of punctuations

Compatible with major platforms and systems

Supports many operating systems.

Writing code in python is easy

You will write your code faster, optimizing developer resources

You will have access to tons of dedicated python libraries and frameworks, so you won't have to build everything from scratch

What is Python?

Python is an interpreted, High-Level language, interactive, object-oriented programming language. It incorporates modules, exceptions, dynamic typing, very high level dynamic data types, and classes.

Interpreted: an interpreter takes the code you write and executes (runs) whatever actions you specified, creates the variable you created, and does a lot of behind the scenes work to ensure it runs smoothly or tells you about errors.

List of companies that use Python:

Mozilla, Google, Netflix, Uber, Microsoft, Dropbox, Slack, JP Morgan, and Many more.

Compiler converts high level language to machine language whole program at a time.

Interpreter - Converts high level language to machine language one line at a time.

Variables: Data/Value can be stored in temporary storage called Variables

```
a = int(input('enter a value of a'))  
b = int(input('enter a value of b'))  
  
sum = a + b  
  
print (sum)
```

Output:

```
enter a value of a 5
enter a value of b 6
11
```

MCQ's:

Compiler converts the code

2



☐ Line by Line

☒ Whole code at a time

67.39%

How to declare variable in python

Not Submitted



☐ var a = 2

☒ a = 10

63.04%

Python needs

Not Submitted



☐ Compiler to execute

☒ No compiler needed to execute

65.22%

Python is a ?

Not Submitted



☐ High Level Language

☐ Interpreted Language

☒ All of the above

41.3%