

# 29th Jan Assignment

February 4, 2023

## 1 Assignment1

Q1.Who developed python programming language

Ans. Guido Van Rossum

Q2.Which type of programming does python support?

Ans. Object oriented programming

Q3.Is python case sensitive while dealing with identifiers?

Ans. Yes,python is case sensitive

Q4.What is the correct extension of python file?

Ans. The correct extension is .py

Q5.Is python compiled or interpreted?

Ans. Python is an interpreted language

Q6.Name a few blocks of code define in python language?

Ans. There are 3 blocks of code:

1.Module

2.Function body

3.Class definition

Q7.State a character used to give single line comment in python?

Ans. Hash(#)

**Q8.Mention the functions which can help us to find the version of python in which we are currently working on?**

**Ans. `python__version()`**

**Q9.Python support the creation of anonymous function at runtime,using a construct is called \_\_\_\_\_?**

**Ans. Lambda**

**Q10.What does pip stand for in python?**

**Ans. PIP stand for Preferred Installer Program**

**Q11.Mention a few built-in functions in python?**

**Ans. The few built-in functions in python are `len()`,`dict()`,`list()` etc.**

**Q12.What are the maximum possible length of identifier in python?**

**Ans. 79 characters**

**Q13.What are the benefits of using python?**

**Ans. The benefits of using python are:**

- Python is general-purpose,interpreted language that offers code reliability.
- It is easy to learn and understandable by a beginner.
- Python offers a wide range of that can be used across various applications.
- Python used in various fields such as data science, web development, game development etc.

**Q14.How is memory managed in python?**

**Ans. Memory management in python involves a private heap containing all python objects and data structures. The management of this private heap is ensured internally by python memory manager.**

**Q15.How to install python in window and set path variables?**

**Ans. There are following steps for this:**

- First we have to python setup.exe from official website and installed it in our system.
- Second we need to where python is installed and copy the path of file location.
- Third we have to search for 'Environment Variables' and open that.
- Fourth we have to click 'Environment Variables' button and there we get two categories as 'User' and 'System'.
- Fifth we have to New button in user section and Python as variable name copied path as variable value and click OK. That's done!

**Q16.**Is indentation required in python?

**Ans.** Yes, indentation in python is required.