

29th Jan'23 Assignment Solution

1. Who developed python language?

Ans. Guido Van Rossum

2. Which type of Programming does Python support?

Ans. Object Oriented Programming & Structured Programming are fully supported, and many feature support functional programming and aspect-oriented programming

3. Is Python case sensitive when dealing with identifiers?

Ans. Yes, Python is case sensitive language

4. What is the correct extension of the Python file?

Ans. .py

5. Is Python code compiled or interpreted?

Ans. Python code are interpreted

6. Name a few blocks of code used to define in Python language?

Ans. A block is a piece of Python program text that is executed as a unit. The following are blocks: a module, a function body, and a class definition

7. State a character used to give single-line comments in Python?

Ans. Hash character(#) is used to comment the line in the Python program

8. Mention functions which can help us to find the version of python that we are currently working on?

Ans. sys.version

9. Python supports the creation of anonymous functions at runtime, using a construct called?

Ans. It uses a construct called "lambda"

10. What does pip stand for python?

Ans. pip stands for "preferred installer program"

11. Mention a few built-in functions in python?

Ans.

print() function

type() function

input() function

abs() function

pow() function

dir() function

sorted() function

max() function

round() function

divmod() function

12. What is the maximum possible length of an identifier in Python?

Ans. 79 Characters

13. What are the benefits of using Python?

Ans.

Data science

Scientific and mathematical computing.

Web development.

Finance and trading.

System automation and administration.

Computer graphics.

Basic game development.

Security and penetration testing.

14. 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 the Python memory manager

15. How to install Python on Windows and set path variables?

Ans. Install python from this link <https://www.python.org/downloads/> After this, install it on your PC. Look for the location where PYTHON has been installed on your PC using the following command on your command prompt: cmd python.

Then go to advanced system settings and add new variable and name it as PYTHON_NAME and paste the copied path.

Then look for the path variable, select it's value and select edit Add a semicolon towards the end of the value if it's not present and then type %PYTHON_HOME%

16. Is indentation required in python?

Ans. Yes, It is required.

Indentation refers to the spaces at the beginning of a code line. Where in other programming languages the indentation in code is for readability only, the indentation in Python is very important. Python uses indentation to indicate a block of code.