

**29th Jan Python Assignment**

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1. Who developed Python Programming Language?

Guido Van Rossum developed Python Programming Language.

1. Which type of Programming does Python support?

Python supports multiple programming type. The main four programming paradigms for python- i. imperative, ii. Functional, iii. Procedural, iv. Object-oriented.

1. Is Python Case sensitive when dealing with identifiers?

Yes, Python Case sensitive when dealing with identifiers and Python is case sensitive language.

1. What is the correct extension of the python file?

“.py” is the correct extension of the python file. ‘Mahfuz.py’ is the example of python file.

1. Is python code compiled or interpreted?

Python is an interpreted language, in python code executed line by line.

1. Name a few blocks of code used to define in python language?

Few blocks of code used to define in python language are functions, loops, classes.

1. State a character used to give single-line comments in python?

‘#’ character used to give single-line comments in python. ‘#this is a python single line comment example’.

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

Function ‘sys.version’ can help us to find the version of python that we are currently working on. Also in command line we can use ‘python -v’ to check current version of python we are using.

1. Python supports the creation of anonymous function at runtime, using a construct called \_\_\_\_\_\_\_?

Python supports the creation of anonymous function at runtime, using a construct called ‘lambda’.

1. What does pip stand for python?

Pip stand for ‘pip installs packages’ in python.

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

Some build in function name are ‘print(), len(), range(), max(), min(), type(), int(), float(), list(), abs()’.

1. What is the maximum possible length of an identifier in python?

79 character is the maximum possible length of an identifier in python.

1. What are the benefits of using python?

Benefit of using python: -

* Simple and easy to understand
* It’s free and open source
* Dynamic and high-level language.
* Large community and extensive libraries.

1. How is memory managed in python?

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.

1. How to install python on windows and set path variables?

Download the latest version of Python from the official [website](https://www.python.org/downloads/):

Run the installer and follow the on-screen instructions. Make sure to select the option to add Python to the PATH environment variable during the installation process.

Open the Command Prompt and type "python" to verify that the installation was successful and to see which version of Python is currently being used.

To set the path variables, you can follow these steps:

* + Right-click on the computer icon and select Properties.
  + Click on Advanced system settings.
  + Click on Environment Variables.
  + Under System Variables, scroll down and find the "Path" variable, then click on Edit.
  + Add the path to the Python installation to the end of the existing paths. The path should look something like this: C:\PythonXX, where XX is the version number.
  + Close the Environment Variables and Command Prompt windows, then open a new Command Prompt window to apply the changes.

1. Is indentation required in python?

Yes, indentation is required in python. Python uses indentation to indicate a block of code.