

ASSIGNMENT-1

INTRODUCTION TO PYTHON

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1. What are the key features of Python?

- Python is a *simple English like* coding language.
- It is a *high-level* language
- It is a *platform independent* language ie.) it can run on any OS like Linux, Windows.
- It is an *interpreted language* ie.) it uses interpreter rather than a compiler.
- It has *abundance* of packages, libraries.
- *Multi-threading* makes Python a prominent one.

2. Python is an interpreted language. Explain.

Generally, programming languages other than Python uses compilers to execute the program. Because CPU understands only low-level language ie.) machine level which is in binary (0's and 1's). Whereas in interpreted languages like Python, *CPU plays no role*. This serves as an advantage to Python. Thus, Python is an interpreted language allowing the user to execute the *code line by line* as well.

3. What are the benefits of Python?

Here are few benefits of Python programming language:

- *Simple* programming language
- Needs *few lines of codes* to execute any program. For instance, a 1000-line program can be executed through Python with just 400-500 lines.
- Execution time is *faster* compared to other programming languages.

4. What are the applications of Python?

Applications of Python programming language are listed below:

- Social media platforms like *Instagram, Facebook* function using Python.
- *NLP* uses python since both are high-level language oriented.
- Majority of *gaming applications* use Python.
- Food delivery applications like *Zomato*.
- Online transaction platforms like *Google pay* function using Python.