**ASSIGNMENT-1**

**Introduction to Python**

1. What are the key features of Python?

The various features of python are:

* Python is Open source, General purpose interpreted language
* It is an interactive language.
* It is English like language – easy to understand, read and maintain
* It has Rich libraries
* It can be used in scripting, shell scripting
* It is functional oriented programming, modular programming language, object-oriented programming (OOPS).
* It is independent on OS.

The above are the major features of python.

1. Python is an interpreted language. Explain.

* Python is an interpreted language means that the code gets executed without getting converted into machine language.
* Interpreted languages take single instruction as an input and they are slower when compared to compiled languages.
* The storage required for the interpreted language is less.

1. What are the benefits of Python?

* Python is a simple English like language which helps in easy understanding and application.
* Python is reliable, versatile, has a large community.
* It has great libraries that makes users reduce coding errors and time.
* All these features make it easy to learn.
* It is used in many different industries.

1. What are the applications of Python?

Python is used in many fields of technology:

* Web development
* Artificial intelligence
* Data analytics
* Machine learning
* Web scrapping
* API – Databases
* Game Development
* Data science and visualization
* Business applications
* Image processing applications

Python is used in developing applications like Facebook, Spotify, Reddit, Instagram, Quora, Git, Dropbox

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