

1. Explain the features of Python.
2. What are comments in python?
3. What do you mean by dynamic Typing in python. State its advantages and disadvantages.

Features of Python:

Easy to Learn and Use: Python has a simple and readable syntax that makes it easy for beginners to learn.

Interpreted Language: Python does not require compilation; it is executed line-by-line using an interpreter.

Dynamically Typed: Variable types are determined at runtime, making coding more flexible.

Object-Oriented: Python supports object-oriented programming (OOP) with classes and objects.

Comments in Python

Comments in Python are used to explain code and improve its readability. They are ignored by the Python interpreter and do not affect the program execution. Python supports the following types of comments:

Single-line Comments:

Use the # symbol to add a comment.

Multiple Line comments:

Use the ''' or """ symbol

Dynamic Typing in Python

Python is dynamically typed, which means that variable types are determined at runtime rather than being explicitly declared. You don't need to specify the data type of a variable when assigning a value.

Example:

`x = 10` `x` is an integer

`x = "Hello"` `x` is a string

`x = 3.14` `x` is a float