

Ques. File Extensions in Python?

- **.py**– The normal extension for a Python source file
- **.pyc**- The compiled bytecode
- **.pyd**- A Windows DLL file
- **.pyo**- A file created with optimizations
- **.pyw**- A Python script for Windows
- **.pyz**- A Python script archive

Ques. What is the difference between .py and .pyc files?

- **.py** files contain the source code of a program. Whereas, **.pyc** file contains the bytecode of your program.
- We get bytecode after compilation of **.py** file (source code). **.pyc** files are not created for all the files that you run. It is only created for the files that you import.

Ques. What is an Interpreted language?

- An Interpreted language executes its statements line by line. Languages such as Python, Javascript, R, PHP, and Ruby are prime examples of Interpreted languages.

Ques. What is a dynamically typed language?

- Type-checking can be done at two stages:-
 1. **Static**- Data Types are checked before execution.
 2. **Dynamic**- Data Types are checked during execution. Python is an interpreted language, executes each statement line by line and thus type-checking is done on the fly, during execution. Hence, Python is a Dynamically Typed Language.