1. **What is the difference between compiler and interpreter?**

**Ans:** The **compiler** is a translator which takes input i.e., High-Level Language, and produces an output of low-level language i.e. machine or assembly language.

On the other hand, an **interpreter** directly executes the source code line by line.

**The difference between a compiler and an interpreter is : -**

**Compiler :**

**\*** compiler scans the entire program first and translate into machine code.

**\*** Compiler shows all errors and warning at same time.

**\*** Error occurs after scanning the whole program**.**

**\*** Here the execution time is less.

**\*** compilation is used by language such as - c,c++ etc.

**Interpreter :**

**\*** Interpreter scans the program line by line and translates into machine code.

**\*** Interpreter shows one error at a time.

**\*** Error occurs after scanning each line of the program**.**

**\*** Here the execution time is more.

**\*** Interpreter is used by language such as - Java,Python etc.

1. **Which one is better? compiler or interpreter?**

**Ans:** The Interpreter is useful in the case of debugging, but it is slower and a Compiler goes for full code, error resolution becomes challenging. Therefore, which one is better, totally depends on what work has to be performed by the user.

**3) What do you mean by PVM?**

**Ans :** PVM refers to the Python Virtual Machine that is to convert the byte code instructions into machine code so that the computer can execute those machine code instructions and display the final output.

Python program(x.py) --**(compile using python compiler)**--> Python compiled file(x.pyc) --**(run using PVM)**---->macnine code(0’s and 1’s) --> computer

**4)What are the different data types in python?**

**Ans :** There are different types of data types in Python. Some built-in Python data types are:

**\*** ****Numeric data types****: int,float,complex number

**\*** ****String data types****: str

**\*** ****Sequence types****:list,tuple,range,

**\* **Binary type**:** bytes

**\*** ****Mapping data type****:dict

**\* **Boolean type****:bool

**\* **Set data type****:set

**5)What are the different keywords in python?**

**Ans:** There are different types of keywords in Python. Some of them are :

\* **Value Keywords:** True, False, None.

**\* Operator Keywords:** and, or, not, in, is.

**\* Control Flow Keywords:** if, elif, else.

**\* Iteration Keywords:** for, while, break, continue, else.

**\* Structure Keywords:** def, class, with, as, pass, lambda.

**\* Returning Keywords:** return, yield.

**\* Import Keywords:** import, from, as. etc..