Q7. Huy function: -> provides do cumentation.

It is used as help (mater).

It gives the entire detail about any library or function inso called inside the heep.

It gives the code of the lib or function

called from scratch.

Q6. PEMDAS P: Parenthesis D: Divide

E: exponents A: Add

M: Multiph S: substract

9t is used from left to right as a priority
gor doing the arthumatic operations.

Q5. import mater

a = math. pi

print (a) -> gives 3.14 ----

When we import a vib, we can use all the functions built in that library. Without importing, functions cannot be used.

Built - in functions in python are pre-defined

functions perovided by the python language that

can be used to perform common tasks

abs() -> Return the absolute value of a number

hup() -> Display the documentation of modules,

functions, classes, Keywords etc.

print () -> Print output to the consider

pow() -> compute the bown of a number

open() -> open a file and returns its object.

193. Object - Oriented Programming (0017) is a way to design programs by using objects. An object is sine a real -world thing that has properties (data) and actions (functions).

Key concept:

- 1. Encapsulation: Reep data and actions inside a box (object), only allowing similed access.
- 2. Abstraction: Focus on important details, hiding the complexity.
- 3. Inheritance: Share Common towards among related

4. Polymonphism: one action works differently depending on the object.

Programming Languages using DOP.

1) (++ 2) Java 3) Python 4) (# 5) Ruby.

Key Differences:

- 1) (++ Offers manual memory management and low-level control, suitable for performance critical tasks,
- 2) Java emphasizes portability with its JVM but is verbose compared to bythom.
- 3) Python is glexible and beginner friendly but Slower for layer abblications.
- 4) (# is tightly integrated with Windows ecosystems and is widely used in garming (Unity).
- 5) Ruby is focused on simplicity, often used in web frame works like Rails.

A compiled language is converted into machine code 80 that the brocesson can execute it 92. An interpreted language is a layuage in whoch the implementations execute instructions directly without earlier compiling a parogram into machine language. The compiled programs own faster than interpreted programs.

Features of python that made it popular:

- 1) Simplicity and Readability.
- 2) Ver satility
- 3) Extensive Libraries and Frame works.
- u) Dynamic typing
- 5) Laye Community Support.

Flaws of python;

- 1) Performance Issues
- 2) Higher memony Uses
- 3) Weak in Mobile Dev
- \$) Runtime Errors
- 5) Not Ideal for low-level programming,