**Que.1-Introduction to Python modules and importing modules.**

**Ans.** Python modules are files containing python code that define functions,classes and variables. They help to organize and reuse code efficiently. By dividing your code into modules , you can manage larger projects more easily and use existing libraries to speed up development.

* Creating a module(file-Addition.py)

Def sum(no1,no2):

Return no1+no2

* Importing module

Import Addition

No1=input(“enter no1”)

No2=input(“enter no2”)

Result=Addition.sum(No1,No2)

Print(Result)

**Que.2-Standard library modules: math , random.**

**Ans.**

* Math Module:~

Math module provides access the mathematical functions defined by the c standard.

Some math functions are followings:

* Math.ceil(variable)
* Math.factorial(variable)
* Math.floor(variable)
* Math.trunc(variable)
* Math.pow(var1,var2)
* Ex.,

Import math

Choice\_number=input(“enter number:”)

Result=math.factorial(choice\_number)

Print (Result)

* Random module:~

Random module provides

random module that can generate random numbers.

Random module importing and using for numeric formatted data.

Some random functions are followings:

* Random.randint(var1,var2)
* Random.choice(variable)
* Random.random()
* Ex.,

Import random

For I in range(1,5):

Print(random.randint(2,5))

**Que.3-creating custom modules.**

**Ans.**

Creating custom modules in python allows you to organize your code into reusable pieces, making it more manageable and readable.

* Step.1:creating a python file.

Save each file with a ‘.py’ extension.

* Step.2:define functions , classes and variables.

Write the code user want to include in user module.

* Step.3:save and import.

Save python file and import it into program main script.