

# **IIDT-Blackbucks short term internship FSD session 09-APSHE**

The Ninth Session is about modules in python, Pre-defined modules in python. That modules are datetime module, random module, math module, OS module.

## **Topics covered:**

1.Modules in python

2.Datetime module

3.Random module

4.OS module

5.Math module

## **Key points:**

- A module is a file consisting of python code. It can define functions, classes, and variables, and can also include runnable code. Any python file can be referenced as a module. A file can be referenced as a module. a file containing python code.
- A module is a file containing python definitions and statements.
- The main module is the source file that runs first.
- The datetime module in python is a pre-defined module that provides classes and functions for working with dates and times. It allows you to create, manipulate, and format dates and times in various ways.
- 'datetime' represents a specific date and time, including year, month, day, hour, minute, second, and microsecond.
- 'date' represents a date without time information.
- 'time' represents a time without date information.
- 'timedelta' represents the difference between two 'datetime' objects, allowing you to perform arithmetic operations on dates and times.

- Random module in python is a pre-defined module that provides functions for generating random numbers and selecting random elements from a sequence .It's a handy tool when you need to introduce randomness or make random selections in python
- The 'os' module in python is a pre-defined module that provides functions for interacting with the operating system. It allows you to perform various operations related to file and directory management, process management, and more
- The math module in python is a pre-defined module that provides various mathematical functions and constants . it is a powerful tool when you need to perform mathematical calculations in your code.