Assignment No. 9

Qu- what is class and object? How they are implemented in Python?

Ans-

class - The class can be defined as collection of objects. It is a logical entity that has same specific attributes and methods.

e.g. if we have a class - employee then it has attributes and methods i.e. an email-id, age, salary etc.

Syntax - class classname !

object - Object is an entity that has state and behaviour. It may be similar to any real-world objects like mouse, pen, chair etc.

Everything in Python is an object and almost everything has attributes and methods. All functions have a built-in attribute.

Syntax -
object name - classname (arguments)

Q. what is constructor and its types?

Ans- A constructor is a special type of method

(function) which is used to initialize the instance members of the class.

* They are of two types-

1.) Paramaterized
2.) Non - parameterized

→ Constructor definition is executed when we create the objects of this class.

eg:
To initialize the employee class attributes-

```
class Employee:
    def _init (self. name, id):
        self.id  - id
        self.name - name
    def display (self):
        print ("ID: %.d -in Name: %s"%
              (self.id, self.name)
    emp1 - Employee ("Ravi", 101)
    emp2 - Employee ("Harishit", 102)
    emp1. display () # to print emp1 inform
    emp2. display ()
```

o/p :-
    Id: 101
    Name: Ravi
        ID: 102
        Name: Harshit