

10. PYTHON CLASSES AND OBJECTS

Learning Objectives

After the completion of this chapter, the student is able to

- ❖ Understand the fundamental concepts of Object Oriented Programming like: Classes, Objects, Constructor and Destructor.
- ❖ Gain the knowledge of creating classes and objects in Python.
- ❖ Create classes with Constructors.
- ❖ Write complex programs in Python using classes.

Important Notes and Points

- Python is an Object Oriented Programming language.
- Classes and Objects are the key features of Object Oriented Programming.
- Class instantiation uses function notation ie. `class_name` with
- Any class member ie. Class variable or method (function) can be accessed by using object with a dot (`.`) operator.
- The statements defined inside the class must be properly indented.
- Constructor is the special function that is automatically executed when an object of a class is created.
- Destructor is also a special method gets executed automatically when an object exit from the scope.
- The variables which are defined inside the class is public by default.