

Chap 5: Object Oriented Programming in Python

1. Explain the concept of class & object with syntax and example.
2. Explain the concept of method overloading with syntax and example.
3. Explain the concept of method overriding with syntax and example.
4. Differentiate between method overloading and method overriding in detail with example.
5. Explain the concept of data hiding and abstraction in detail with example.
6. What is inheritance? List its types with example.
7. Explain Single inheritance with example and syntax.
8. Explain multi level inheritance with example and syntax.
9. Explain multiple inheritance with example and syntax.
10. Explain use of namespace in python
11. Illustrate class inheritance in Python with an example
12. Design a class Employee with data members: name, department and salary. Create suitable methods for reading and printing employee information
13. Illustrate the use of method overriding? Explain with example
14. Create a class Employee with data members: name, department and salary. Create suitable methods for reading and printing employee information
15. Python program to read and print students information using two classes using simple inheritance.
16. Write a Python program to implement multiple inheritance
17. Write a Python program to create a class to print an integer and a character with two methods having the same name but different sequence of the integer and the character parameters. For example, if the parameters of the first method are of the form (int n, char c), then that of the second method will be of the form (char c, int n)
18. Write a Python program to create a class 'Degree' having a method 'getDegree' that prints "I got a degree". It has two subclasses namely 'Undergraduate' and 'Postgraduate' each having a method with the same name that prints "I am an Undergraduate" and "I am a Postgraduate" respectively. Call the method by creating an object of each of the three classes.