Assignment-8

1. Create a class named 'PrintNumber' to print various numbers of different datatypes by creating different methods with the same name 'printn' having a parameter for each datatype.

2. 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.

3. A class has an integer data member 'i' and a method named 'printNum' to print thevalue of 'i'. Its subclass also has an integer data member 'j' and a method named 'printNum' to print the value of 'j'. Make an object of the subclass and use it to assign a value to 'i' and to 'j'. Now call the method 'printNum' by this object.

4. Create a class with a method that prints "This is parent class" and its subclass with another method that prints "This is child class". Now, create an object for each of the class and call
   1 - method of parent class by object of parent class
   2 - method of child class by object of child class
   3 - method of parent class by object of child class

5. Create a class named 'Member' having the following members:
   Data members
   1 - Name
   2 - Age
   3 - Phone number
   4 - Address
   5 - Salary
   It also has a method named 'printSalary' which prints the salary of the members.
   Two classes 'Employee' and 'Manager' inherits the 'Member' class. The 'Employee' and 'Manager' classes have data members 'specialization' and 'department' respectively. Now, assign name, age, phone number, address and salary to an employee and a manager by making an object of both of these classes and print the same.

6. Create a class named 'Shape' with a method to print "This is This is shape". Then create two other classes named 'Rectangle', 'Circle' inheriting the Shape class, both having a method to print "This is rectangular shape" and "This is circular shape" respectively. Create a

subclass 'Square' of 'Rectangle' having a method to print "Square is a rectangle". Now call the method of 'Shape' and 'Rectangle' class by the object of 'Square' class.

7. Write a program to print the sum of two numbers entered by user by defining your own method.

8. Define a method that returns the product of two numbers entered by user.

9. Define a method to find out if number is prime or not.

10. Write a program to reverse a 3-digit number.
    E.g.-Number : 132 Output : 231