

## Assignment 5

(Inheritance)

- 1) Create a class person having data members as name, gender, age and member functions as read and display. Inherit two classes named student and exam from person and implement them with entity like roll no, branch marks etc. Display each student's details.
- 2) Create a class publication and implement with the member functions that accept title and price of the book as input arguments. Create other class sales which keep track of sales details. Create another class book that inherited from the above two classes and display number of pages, name etc.
- 3) Create a class vehicle with the member functions that accept name and wheels count as input arguments and display it. Create other class light motor that inherit vehicle the member functions that accept speed limit, capacity as input. Create two more classes gear and non gear that inherit light motor with gear count as input and display it.
- 4) Create a class student with the member functions that accept name, roll number and branch as input and display it. . Create two more inherited classes' internal exam and external exam that accepts marks and display it.
- 5) Design a base class containing the members Name, Roll Number, Phone Number and Address. Using this class derive a class that contains First semester marks, Second semester marks. Write a Program that will calculate total marks of a student obtained in the two semesters.
- 6) Write a C++ program to Create the Person class. Create some objects of this class (by taking information from the user). Inherit the class Person to create two classes Teacher and Student class. Maintain the respective information in the classes and create, display and delete objects of these two classes.