Inheritance Lab Exercise

1. Write a C++ program to add two numbers using single inheritance. Accept these two numbers from the user in base class and display the sum of these two numbers in derived class.
2. Write a C++ program to calculate the percentage of a student using multi-level inheritance. Accept the marks of three subjects in base class. A class will be derived from the above-mentioned class which includes a function to find the total marks obtained and another class derived from this class which calculates and displays the percentage of student.
3. Write a C++ program to design a base class Person(name, address, phone). Derive a class Employee(eno, ename) from Person. Derive a class Manager(designation, dept\_name, basic\_salary) from Employee. Write a program to:

* Accept all details of ‘n’ managers
* Display manager having highest salary

1. Write a C++ program to define a base class Item (item-no, name, price). Derive a class Discounted-Item (discount-percent). A customer purchases 'n' items. Display the item-wise bill and total amount using appropriate format.
2. Imagine in a college hires some lectures. Some lectures are paid in period basic, while others are paid in month basic. Create a classed called lecture that stores ID and name of lectures. From this class derive two classes: part time, which adds payperhr (type float); and full time, which adds pay per month (type float). Each of these three classes should have a readdata () function to gate its data from user at the key board and printdata () function to display the data. Write a main ()program to test the Full time and part time classes by creating instance of them, asking the user to fill third data with readdate () and display the data with printdata().