Lab-9

Topic: Dynamic Binding (Virtual Functions)

i.   Create a class shape. Derive three classes from it; Circle, Square and Triangle. Find area of each shape and display it, using virtual function.

ii.   Create a class which stores employee name,id and salary Derive two classes from 'Employee' class: 'Regular' and 'Part-Time'. The 'Regular' class stores DA, HRA and basic salary. The 'Part-Time' class stores the number of hours and pay per hour. Calculate the salary of a regular employee and a par-time employee, using virtual function

iii.   Create a class which stores account number, customer name and balance. Derive two classes from 'Account' class: 'Savings' and 'Current'. The 'Savings' class stores minimum balance. The 'Current' class stores the over-due amount. Include member functions in the appropriate class for
            -deposit money
            -withdraw [For saving account minimum balance should be checked.]
                [For current account overdue amount should be calculated.]
            -display balance
        Display data from each class using virtual function.

iv.   WAP to demonstrate use of pure virtual function and abstract base class.[May use the number class as base and hexadecimal , octal and decimal as derived classes]

v.   Also do the media class as base class and book and tape as derived class program too, as discussed in the theory class.