Practical-5

1. Create a class named Date having three instance variables named Day, Month and Year also has two set_date() to catch values of instance variables and get_date() to display caught values on the output screen. And create another class DateDemo containing main() method.

2. Create a class Calculator describing basic arithmetic operations addition, subtraction, multiplication and division. For each operation define separate method to evaluate variables values. For the same class define two additional methods getinfo() for setting values and display() to output calculated values. Also create a new class simple_calc which houses main methods.

   Note: Use switch case to select appropriate operation from main() method.

3. Create a class named Box to find volume of box using method. Box class having instance variables named length, width and height must be filled by initialization and get their value from keyboard.

4. Create a Class named Equation having following methods which finds roots quadratic equation:

   a) Get_info() :- to set instance variable values.

   b) Real():- to evaluate real roots values

   c) Equal_values():- to evaluate equal values.

   d) Imaginary():- to calculate imaginary root i.e not possible roots.

   Create an another class Quadratic residing main() methods which contains finds Delta values and according to result call the appropriate method in Equation Class.

5. Create a class Student having instance variables rollno, age, height, weight and contact for student and also has two methods set_info() and get_info() to set and get instance variable values respectively. A main() method resides in student_info class which sets and gets info for 5 students.

   a) Use parameterized constructor to initialize instance variable values.

6   Create a class Exam having stu_name, rollno, sub_code, sub_name, InternalMarks and
    ExternalMarks also contains two methods Calculate_result() and Show_result().
    Students having marks to be shown in ouput with his name and roll_no.
     A main() method is contained by Exam_demo class.

    a) Use parameterized constructor with local variable named as instance
       variables which hides them.
    b) Use this pointer to prevent instance variable to be overhidden.

Note: Use your additional variables as per your needs.