**Programming Laboratory-I**

**Assignment No-1 Due date-31/10/2023**

**(Basics of object oriented programming, Constructors, Destructors and Static members)**

1. Write a program using class to accept 5 numbers from user and display largest, second largest and smallest, second smallest and middle number among five.
2. Write a program to read 3 values of a, b and c and calculate value of X as

X= a\*b – c/d

Where d=a+b

1. Write a C++ Program to Find Frequency (count) of vowels and consonants (character wise) in below String.

“CPP is easy and great and Python is also great”

1. With help of copy constructor calculate
2. Area of Circle
3. Area of Triangle
4. Area of Square
5. Create class SportsTeam (Name, NoOfPlayers, Average\_age). Make a Static data member as ObjectCount. Create 3 Objects of SportsTeam, Insert and Display all information of 3 SportsTeam and Display count of object.
6. Calculate area of Box (Length, Breadth, Height). Consider Height as static member (Need to initialize). Use static member function getHeight() which will return value of Height. Create function Area() which will calculate area of Box. Use parameterized constructor to initialize data (insert data from keyboard). Create two objects.
7. Write a program to calculate result of student based on his/her marks. Display the result. Use concept of function overloading. (Result of Internal exam, Mid sem exam, End sem exam and Final consolidated result) function name should be result.

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