

Object oriented Programming Laboratory

Lab Cycle 1.2

1. Write class which contains an integer array and a **static function** to find the average of that array and other necessary member functions. Create THREE objects. Read the values into the array using one object, and find the average. Let the second object modifies the value by multiplying each element by a certain multiplier. Repeat the process of finding the average using first object. Using the third object arrange the numbers in ascending order and print,
2. Write a program to find shortest distance between three coordinates points, representing vertices of a triangle, using **inline** function. Also check the validity of the sides to make a triangle.
3. Write a function called swap() that interchanges two **int** values belonging to an object, passed as parameter to it by the calling program. Write a C++ program to demonstrate **call by value, call by reference and call by address**.
4. Write a function called power() that takes a double value for **n** and an int value for **p**, and returns the result as a double value. Create a series of overloaded functions with the same name that, in addition to double, also work with types char, int, long, and float. Write a main() program that exercises these overloaded functions with all argument types.