

APPRENTICESHIP

SET 49 – C++ Programming Language

(Friend Functions and Operator Over loading)

1. Write a program to find the distance between the 2 Points belongs to 2 different classes using a friend function. The data members of the two classes should be private.
2. Write a program to find the area of triangle by using the 3 points belongs to 3 different classes using a friend function. The data members of the three classes should be private.
3. Write a program to merge 3 arrays of size 3,4 and 5 respectively one after another belongs to 3 different classes using a friend function and also sort the merged array in ascending order and print it in friend function only. The array data members of the three classes should be private.
4. Write a program to take 3 arrays of size 5(for each) belongs to 3 different classes using a friend function and find the common elements between all the arrays and print the result in the friend function only. The array data members of the three classes should be private.
5. Write a program to find the transpose of a matrix using the friend function, where matrix is the private data member of the class. Print the resultant matrix in the friend function only.
6. Write a program to find the sum of two matrices belongs to two different classes using a friend function and print the sum matrix in the friend function only. The matrix data members of the two classes should be private.
7. Write a program to overload the unary minus operator on an object. The class should contain three private data members.
8. Write a program to find the sum of two complex numbers using operator overloading.
9. Write a program to concatenate two integer arrays one after another by overloading + operator
10. Write a program to illustrate the overloading of = operator
