

**APPRENTICESHIP**

**SET 48 – C++ Programming Language**

**(Classes and Objects, destructors, Nested class, Friend Functions)**

1. Write a program to illustrate the use of destructors
2. Write a program to illustrate the use of Nested class to accept the person's information and print the same.
3. Write a program to declare an array of size 5 as the data member of class and give the value to the array through user and perform various operations on the array like mean and standard deviation, sort, big and small, reverse with respective member functions. Print the results in the member function only and define the functions outside of the class.
4. Write a program to perform the normal account transactions of a bank such as create account, withdraw, deposit and display with the respective member functions.
5. Write a program to declare an array of size 5 as the data member of a class and class should have member functions like push(), pop( ), display( ) to perform all the operations of Queue.
6. Write a program to declare an array of size 5 as the data member of a class and class should have member functions like push(), pop( ), display( ) to perform all the operations of Stack.
7. Write a program to find the sum of two private integers outside of the class using the friend function.
8. Write a program to find the biggest of two float point numbers using a friend function, where two floating numbers are private data members of two different classes.
9. Write a program to find the average three integer numbers using a friend function, where three integer numbers are private data members of three different classes.
10. Write a program to find the mean and standard Deviation of 5 integer numbers using a friend function, where 5 integers numbers are private data members of five different classes. Embed the mean and standard deviation into an object of class DataKeeper and return to main from the friend function and print it.

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