Innovatus Technologies
Implementing Ideas...

APPRENTICESHIP

SET 47 – C++ Programming Language

(Constructors)

1. Write a program to find the sum of two complex numbers by creating class called Complex with One default and one parameterized constructor. Find the sum of the complex number in another class called Sum and return the Complex number Object and print at main().

2. Write a program to create a class which contains an integer array as data member and create a parameterized constructor to assign the value to the data member. Pass the object of this class to a method of another class to sort them in ascending order and return the array to the main and print it.

3. Write a program to create a class which contains an integer array as data member and create a default constructor to assign the values to the data members. Pass the object of this class to a method of another class to get the reverse array and return the array to the main class and print it.
4. WAP to swap the biggest and smallest elements of an array where array will be the data member of a class. And pass the object as argument to the other class Called big small to find the biggest and smallest.(use constructors to load the objects)

5. Write a program to create a class which contains an integer array as data member and create a default constructor and parameterized to assign the values to the data members. Pass these objects to a function of the same class called commonElements() to print the common elements of both the arrays.

6. Write a program which contains an integer matrix of size 2x2 as a data member and assign the values to the matrix using parameterized constructor and create a method in the same class called getTranspose() which returns the transpose of the matrix to the Main class.

7. Write a program to create a class called matrix which contains an integer matrix of size 3x3 and assign the value to the matrix using parameterized constructor. Now send this object of this matrix class to the function called getNormTransnorm() of class called Transform and return the trans and normal by embedding into object of class called Datakeeper and print trans and normal at main.

8. Write a program to create a class called matrix which contains an integer matrix of size 3x3 and assign the value to the matrix using parameterized constructor. Now send this object of this matrix class to the function called getPrincipalElements() of class called Elements and return the elements in an array as the datamemeber of the same class.

9. Write a program to create a class called matrix which contains an integer matrix of size 3x3 and assign the value to the matrix using parameterized constructor. Now send this object of this matrix class to the function called getaboveSecondaryDiagonalElements() and getBelowSecondaryDiagonalElements() of class called Elements and return the elements in an array as the data member of the same class.

10. Write a program to create a class called matrix which contains an integer matrix of size 3x3 and assign the value to the matrix using parameterized constructor (For non Zero elements). Now send this object of this matrix class to the function called getBoundaryElements() of class called Elements and return the boundary elements in another matrix called bmat as data member of the class. Where non boundary elements should be Zero.

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