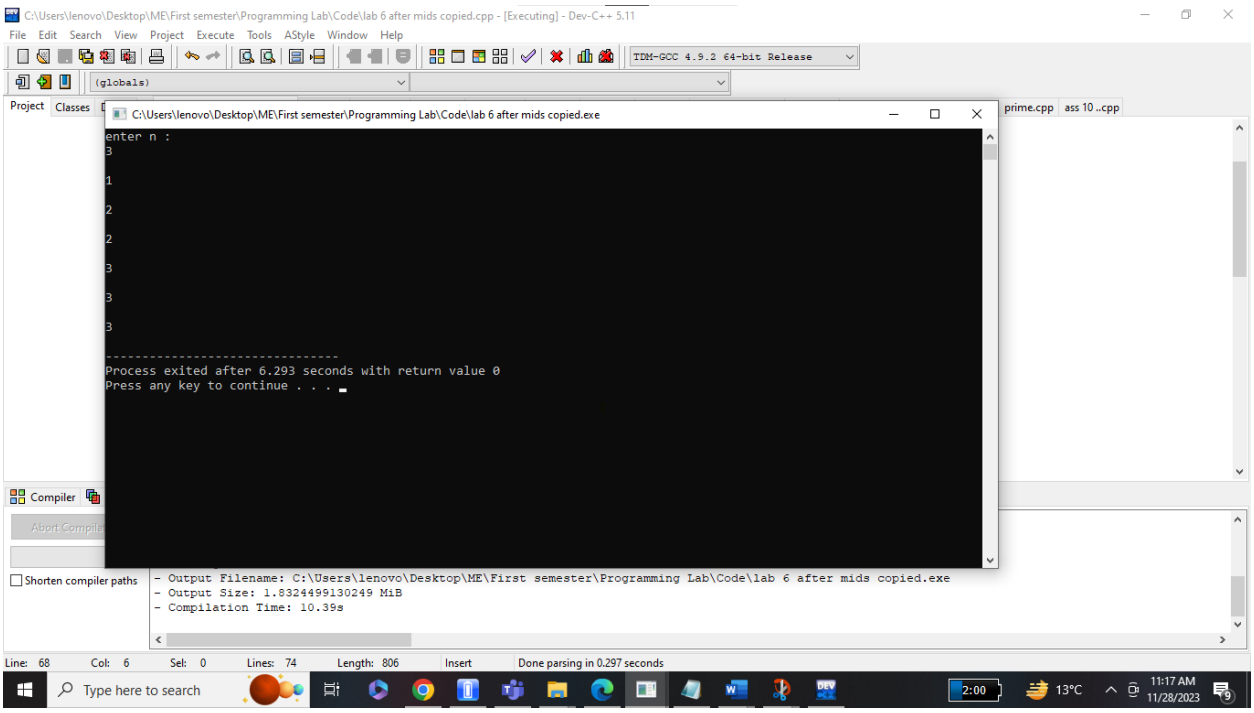
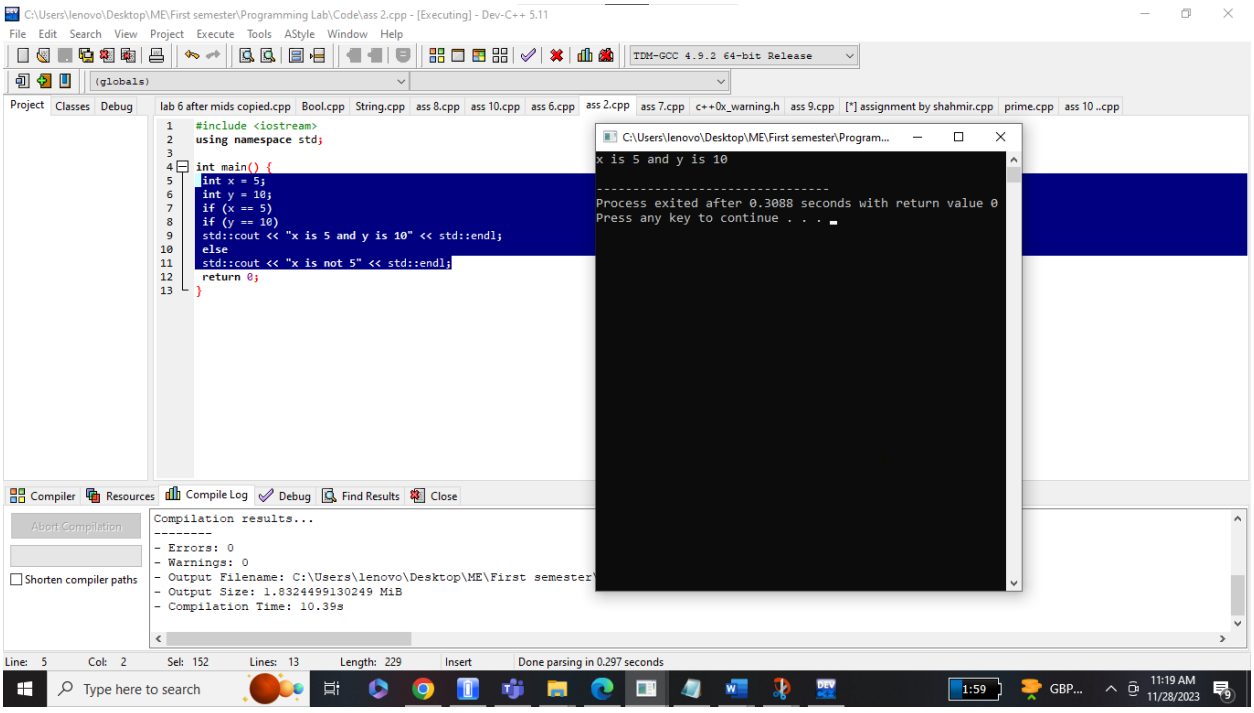
```
//#include <iostream>
//using namespace std;
//int main()
 //{


                // TASK 1
/*      int num,i;
        cout<<"enter number";
        cin>>num;
        for(int i=1;i<=num;i++)

        {
                if(num%i==0){
                        cout<<i<<" ";


                }
        }
        cout<<"factors of "<<num<<" are ";
        */
```



//TASK 2

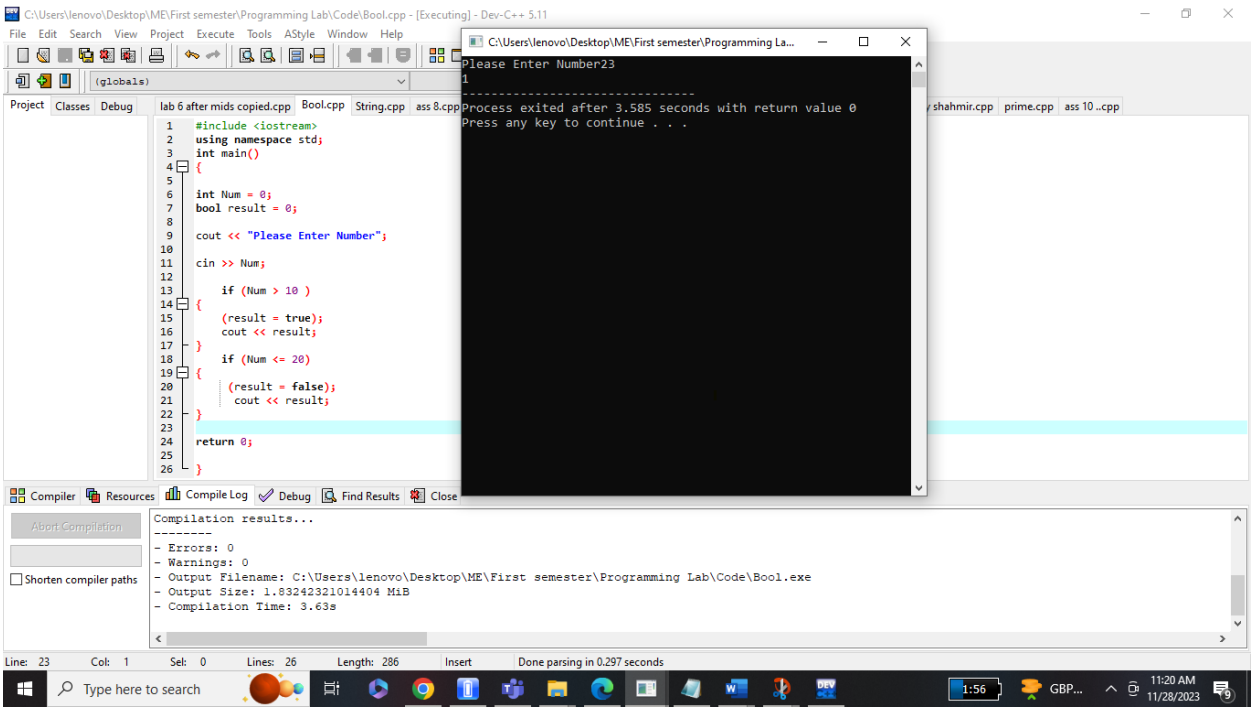
```
/*        int x = 5;
 int y = 10;
 if (x == 5)
 if (y == 10)
 std::cout << "x is 5 and y is 10" << std::endl;
 else
 std::cout << "x is not 5" << std::endl;
 */
```



// TASK 3

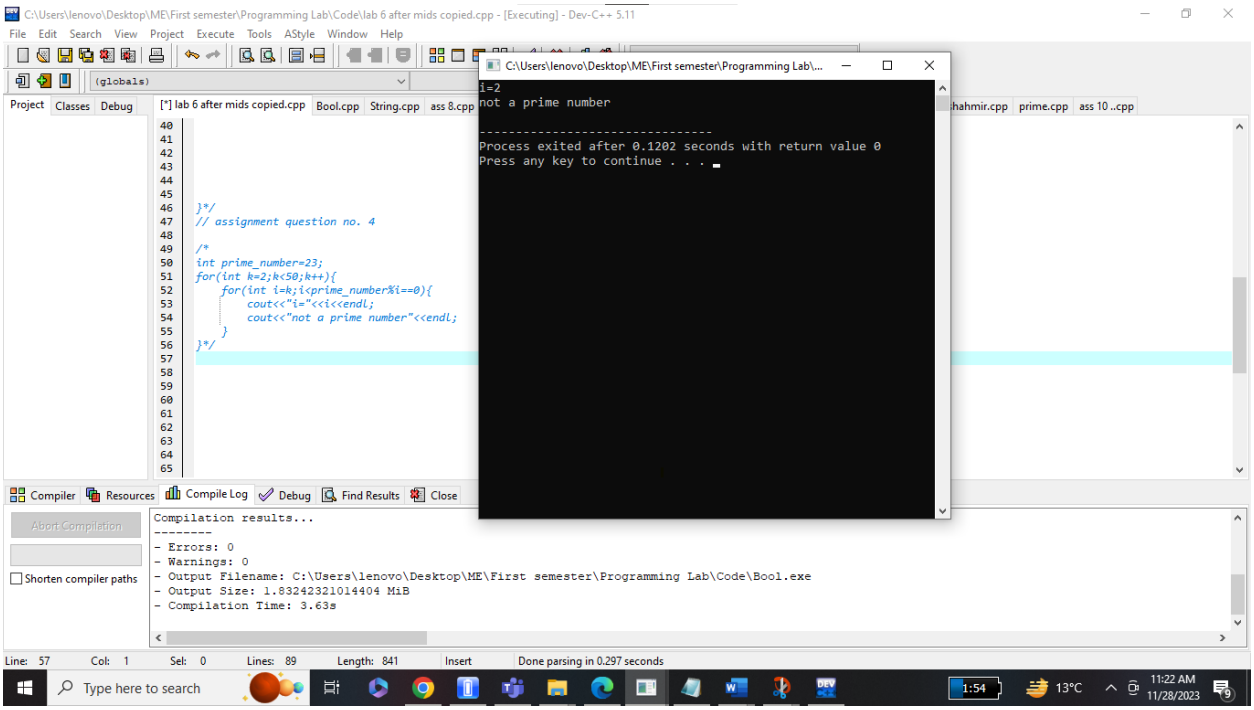
```
 /* int Num = 0;
bool result = 0;

cout << "Please Enter Number";

cin >> Num;

        if (Num > 10 )
{
        (result = true);
        cout << result;
}
```

```
        if (Num <= 20)
{
        (result = false);
         cout << result;
}*/
```



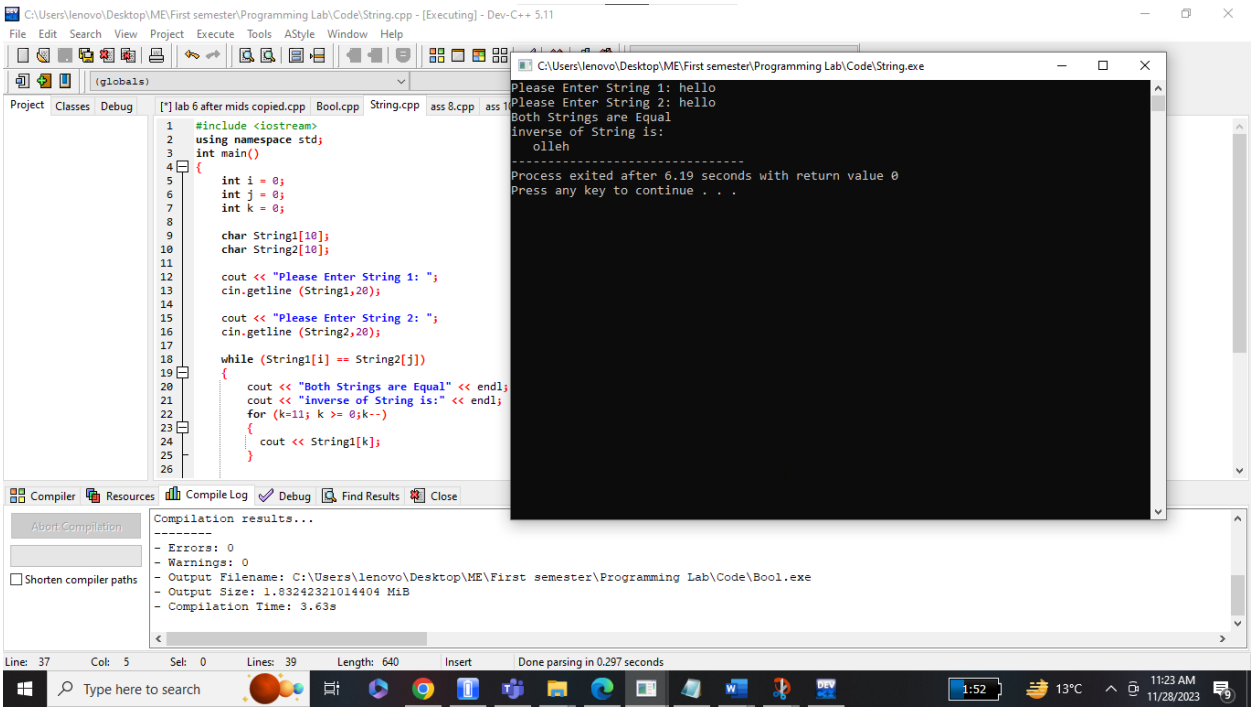

```
        // TASK 4
 /*
{


int prime_number=23;
for(int k=2;k<50;k++)
{
        for(int i=k;i<prime_number%i == 0;i++){
```

```
        cout<<"i="<<i<<endl;
            cout<<"not a prime number"<<endl;
            */
```



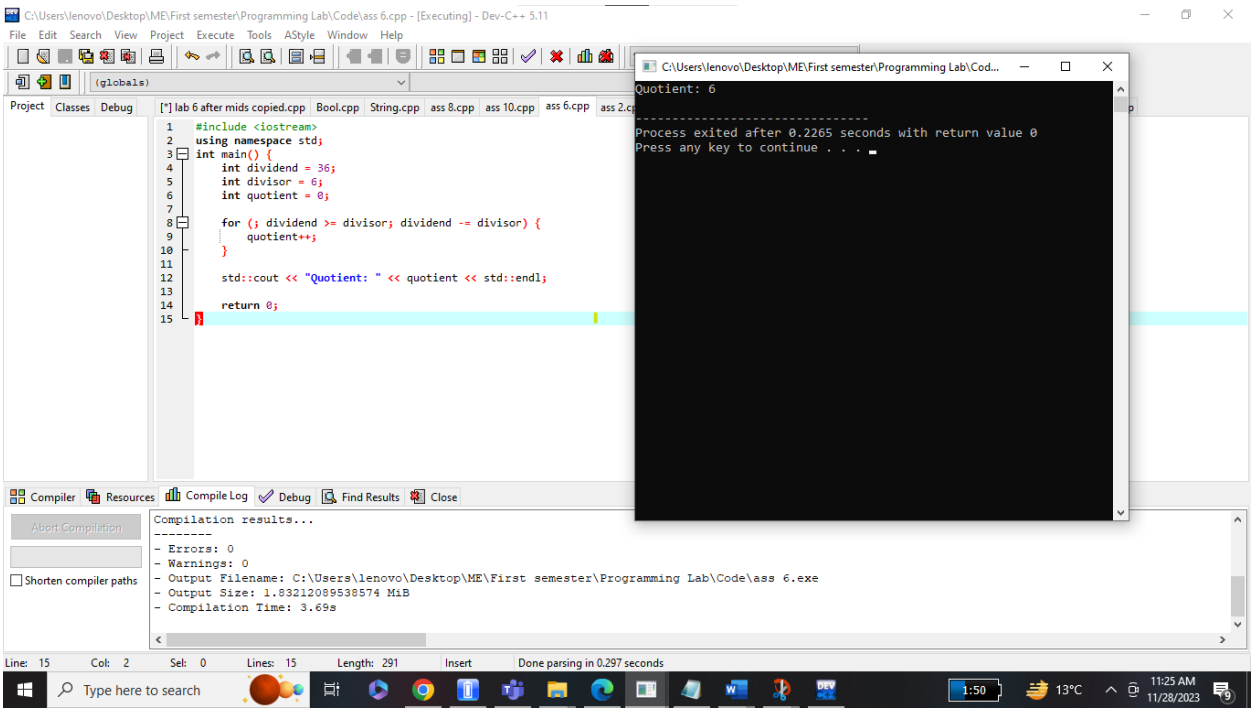

```
                    // TASK 5

/*
        int i = 0;
        int j = 0;
        int k = 0;

        char String1[10];
        char String2[10];
```

```
cout << "Please Enter String 1: ";
cin.getline (String1,20);

cout << "Please Enter String 2: ";
cin.getline (String2,20);

while (String1[i] == String2[j])
{
        cout << "Both Strings are Equal" << endl;
        cout << "inverse of String is:" << endl;
        for (k=11; k >= 0;k--)
        {
          cout << String1[k];
   }

   return 0;
}

while (String1[i] != String2[j])
{
        cout << "Both Strings are not Equal" << endl;

   return 0;
}
*/
```



// TASK 6

```
/*
    int dividend = 36;
int divisor = 6;
int quotient = 0;

for (; dividend >= divisor; dividend -= divisor) {
   quotient++;
}

std::cout << "Quotient: " << quotient << std::endl;
*/
```

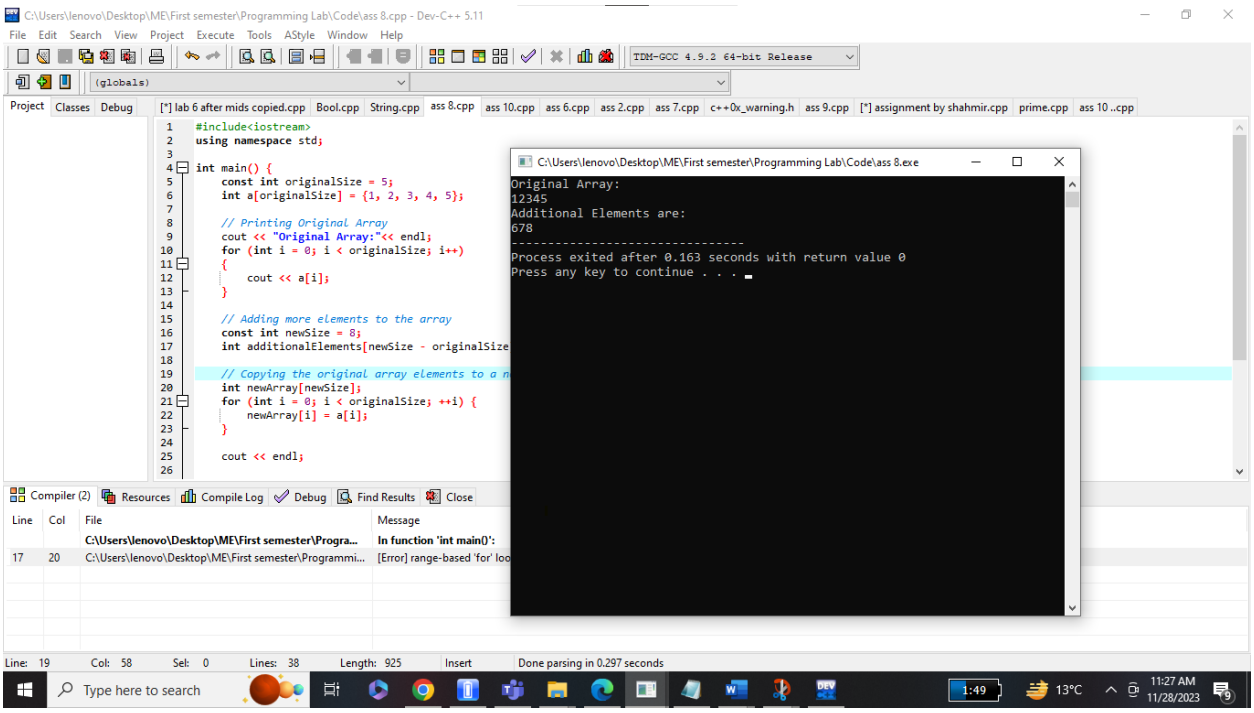


// TASK 7

```
 /*  #include <iostream>
#include <string>

using namespace std;

int main() {
    string input;
    cout << "Enter a string: ";
    getline(cin, input);

    // Creating a frequency array to keep track of characters
```

```
    int frequency[256] = {0};

    // Removing duplicates and updating frequency array
    string result = "";
    for (char ch : input) {
        if (frequency[ch] == 0) {
            result += ch;
            frequency[ch] = 1;
        }
    }

    cout << "Resultant string after removing duplicates: " << result << endl;
*/

                                    // TASK 8

/*
    const int originalSize = 5;
    int a[originalSize] = {1, 2, 3, 4, 5};

    // Printing Original Array
    cout << "Original Array:"<< endl;
    for (int i = 0; i < originalSize; i++)
    {
            cout << a[i];
            }
```

```
// Adding more elements to the array
const int newSize = 8;
int additionalElements[newSize - originalSize] = {6, 7, 8};

// Copying the original array elements to a new array
int newArray[newSize];
for (int i = 0; i < originalSize; ++i) {
   newArray[i] = a[i];
}

cout << endl;

// Adding additional elements to the new array
cout << "Additional Elements are: " << endl;
for (int i = originalSize; i < newSize; ++i) {
   newArray[i] = additionalElements[i - originalSize];
   cout << newArray[i];



   */
```



// TASK 9

/*

{

int arr[10] = {1, 4, 45, 6, 10, 8,3,23,65,2};

int x,size=10;

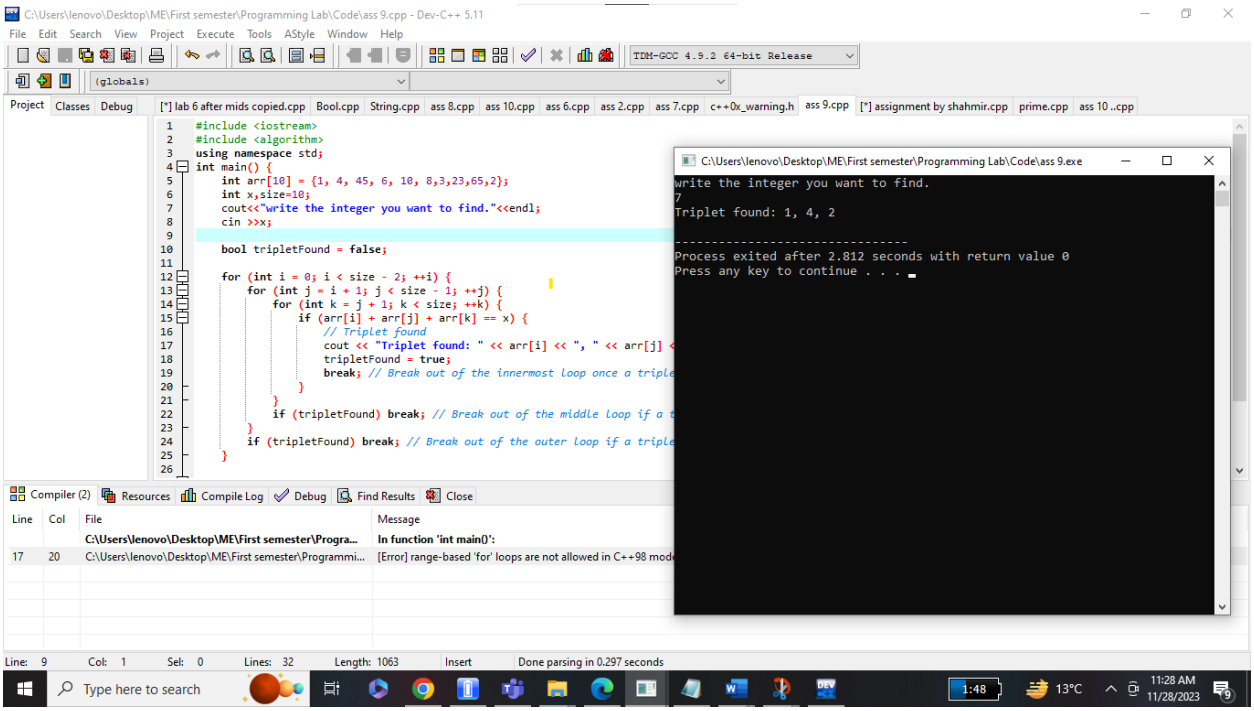
cout<<"write the integer you want to find."<<endl;

cin >>x;

bool tripletFound = false;

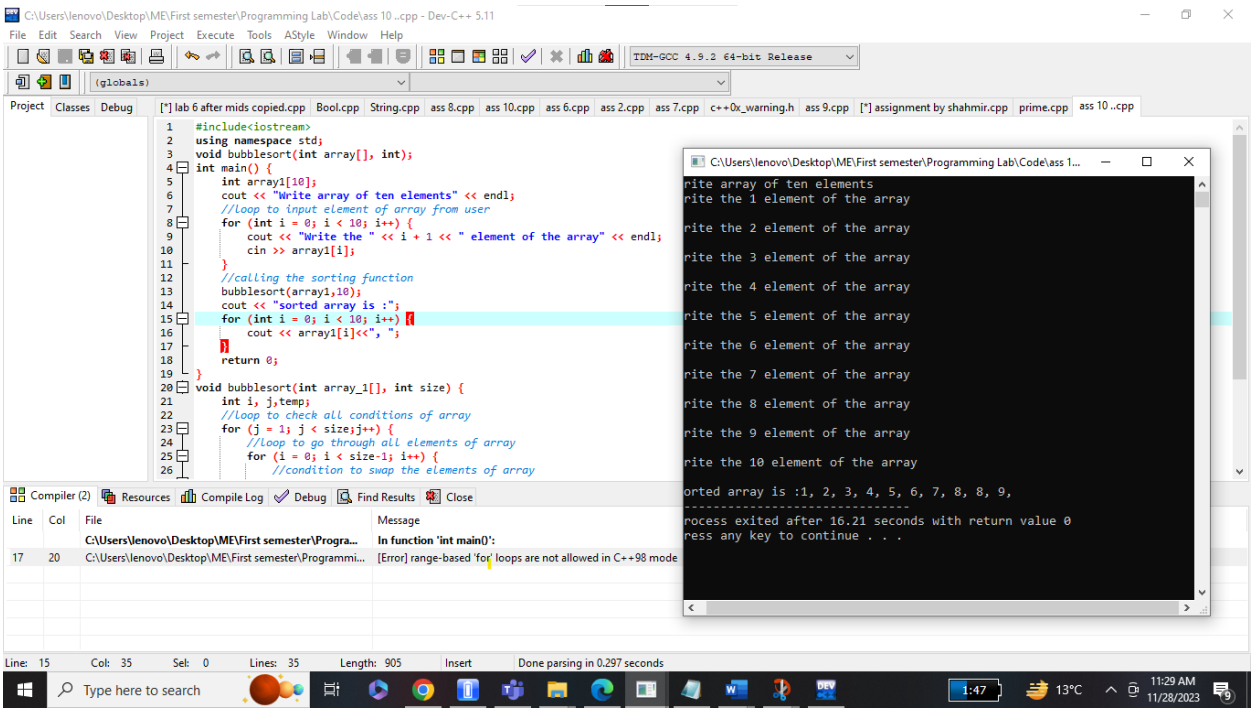
for (int i = 0; i < size - 2; ++i) {

```
    for (int j = i + 1; j < size - 1; ++j) {
        for (int k = j + 1; k < size; ++k) {
            if (arr[i] + arr[j] + arr[k] == x) {
                // Triplet found
                cout << "Triplet found: " << arr[i] << ", " << arr[j] << ", " << arr[k] << std::endl;
                tripletFound = true;
                break; // Break out of the innermost loop once a triplet is found
            }
        }
        if (tripletFound) break; // Break out of the middle loop if a triplet is found
    }
    if (tripletFound) break; // Break out of the outer loop if a triplet is found
  }

  if (!tripletFound) {
    cout << "No triplet found." << std::endl;
  }
*/
```




```
//                              TASK 10
/*
#include<iostream>
using namespace std;
void bubblesort(int array[], int);
int main() {
        int array1[10];
        cout << "Write array of ten elements" << endl;
        //loop to input element of array from user
        for (int i = 0; i < 10; i++) {
                cout << "Write the " << i + 1 << " element of the array" << endl;
                cin >> array1[i];
        }
        //calling the sorting function
        bubblesort(array1,10);
```

```
	cout << "sorted array is :";
	for (int i = 0; i < 10; i++) {
		cout << array1[i]<<", ";
	}
	return 0;
}
void bubblesort(int array_1[], int size) {
	int i, j,temp;
	//loop to check all conditions of array
	for (j = 1; j < size;j++) {
		//loop to go through all elements of array
		for (i = 0; i < size-1; i++) {
			//condition to swap the elements of array
			if (array_1[i] > array_1[i + 1]) {
				temp = array_1[i];
				array_1[i] = array_1[i + 1];
				array_1[i + 1] = temp;
			}
		}
	} }
	*/




   return 0;
}
```


C:\Users\lenovo\Desktop\ME\First semester\Programming Lab\Code\ass 10 ..cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] lab 6 after mids copied.cpp Bool.cpp String.cpp ass 8.cpp ass 10.cpp ass 6.cpp ass 2.cpp ass 7.cpp c++0x_warning.h ass 9.cpp [*] assignment by shahmir.cpp prime.cpp ass 10 ..cpp
#include<iostream>
using namespace std;
void bubblesort(int array[], int);
int main() {
int array1[10];
cout << "Write array of ten elements" << endl;
//loop to input element of array from user
for (int i = 0; i < 10; i++) {
cout << "Write the " << i + 1 << " element of the array" << endl;
cin >> array1[i];
}
//calling the sorting function
bubblesort(array1,10);
cout << "sorted array is :";
for (int i = 0; i < 10; i++) {
cout << array1[i]<<", ";
}
return 0;
}
void bubblesort(int array_1[], int size) {
int i, j,temp;
//loop to check all conditions of array
for (j = 1; j < size;j++) {
//loop to go through all elements of array
for (i = 0; i < size-1; i++) {
//condition to swap the elements of array
C:\Users\lenovo\Desktop\ME\First semester\Programming Lab\Code\ass 1...
rite array of ten elements
rite the 1 element of the array
rite the 2 element of the array
rite the 3 element of the array
rite the 4 element of the array
rite the 5 element of the array
rite the 6 element of the array
rite the 7 element of the array
rite the 8 element of the array
rite the 9 element of the array
rite the 10 element of the array
orted array is :1, 2, 3, 4, 5, 6, 7, 8, 8, 9,
rocess exited after 16.21 seconds with return value 0
ress any key to continue . . .
Compiler (2) Resources Compile Log Debug Find Results Close
Line Col File Message
C:\Users\lenovo\Desktop\ME\First semester\Progra... In function 'int main()':
17 20 C:\Users\lenovo\Desktop\ME\First semester\Programmi... [Error] range-based 'for' loops are not allowed in C++98 mode
Line: 15 Col: 35 Sel: 0 Lines: 35 Length: 905 Insert Done parsing in 0.297 seconds
Type here to search
1:47
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11/28/2023