



<b>NAME</b>	Hasnain ali
<b>CLASS</b>	ME-15
<b>SECTION</b>	C
<b>QALAM ID</b>	478806

### Home task 01

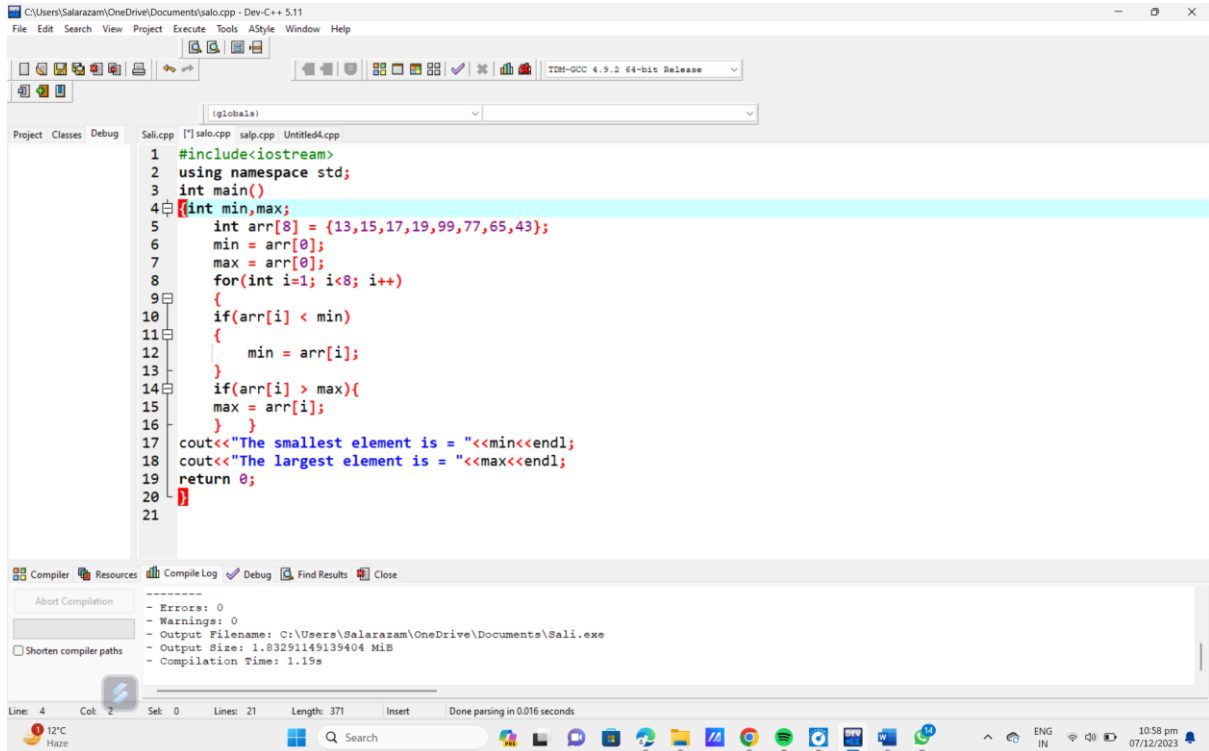
```

2 using namespace std;
3 int main()
4 {
5     int n;
6     cout<<"Enter the number of elements : ";
7     cin>>n;
8     int arr[n];
9     for(int i =0; i<n; i++)
10    {
11        cin>>arr[i];
12    }
13    int count =0;
14    cout<<"Repeating elements are : ";
15    for(int i=0; i<n; i++)
16    {
17        for(int j=i+1; j<n; j++)
18        {
19            if(arr[i]==arr[j])
20            {
21                cout<<arr[i]<<" ";
22            }
23        }
24    }
25    return 0;
26 }

```

Compiler: g++ 4.9.2 64-bit Release  
 Project: salo.cpp  
 Compile Log: Done parsing in 0.016 seconds  
 Errors: 0  
 Warnings: 0  
 Output Filename: C:\Users\Salarazam\OneDrive\Documents\Bali.exe  
 Output Size: 1.83291149139404 MiB  
 Compilation Time: 1.19s

## Home task 02



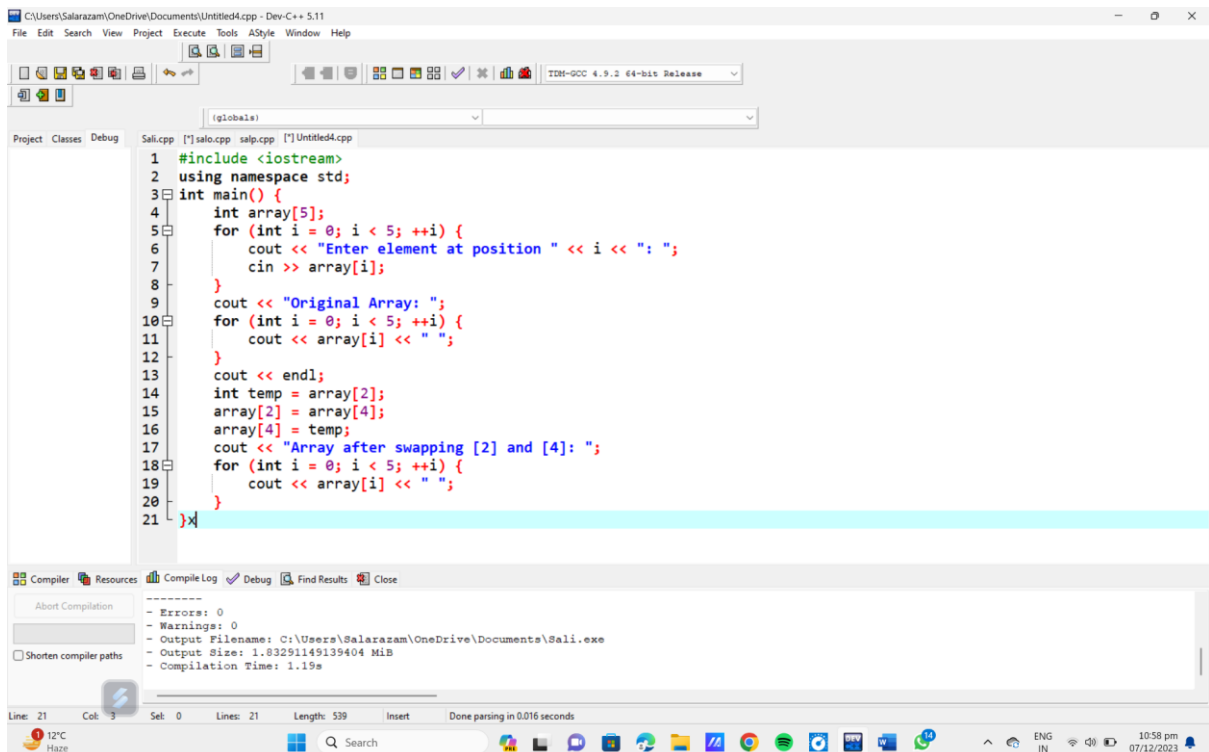
The screenshot shows a C++ IDE with a file named `Sal1.cpp`. The code defines an array `arr` with 8 elements: `{13, 15, 17, 19, 99, 77, 65, 43}`. It then iterates through the array starting from index 1, comparing each element with the current minimum and maximum values. The output shows the smallest element is 13 and the largest element is 99. The compiler log indicates no errors or warnings, and the output file is `C:\Users\Salarazam\OneDrive\Documents\Sal1.exe`.

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int min,max;
6     int arr[8] = {13,15,17,19,99,77,65,43};
7     min = arr[0];
8     max = arr[0];
9     for(int i=1; i<8; i++)
10    {
11        if(arr[i] < min)
12        {
13            min = arr[i];
14        }
15        if(arr[i] > max){
16            max = arr[i];
17        }
18        cout<<"The smallest element is = "<<min<<endl;
19        cout<<"The largest element is = "<<max<<endl;
20        return 0;
21    }
```

Compiler Log:

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Salarazam\OneDrive\Documents\Sal1.exe
- Output Size: 1.83291145139404 MiB
- Compilation Time: 1.19s

## Home task 03



The screenshot shows a C++ IDE with a file named `Sal1.cpp`. The code defines an array `array` with 5 elements: `{0, 1, 2, 3, 4}`. It prints the original array, then swaps the elements at indices 2 and 4, and finally prints the array after the swap. The output shows the original array `0 1 2 3 4` and the array after swapping `0 1 4 3 2`. The compiler log indicates no errors or warnings, and the output file is `C:\Users\Salarazam\OneDrive\Documents\Sal1.exe`.

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     int array[5];
5     for (int i = 0; i < 5; ++i) {
6         cout << "Enter element at position " << i << ": ";
7         cin >> array[i];
8     }
9     cout << "Original Array: ";
10    for (int i = 0; i < 5; ++i) {
11        cout << array[i] << " ";
12    }
13    cout << endl;
14    int temp = array[2];
15    array[2] = array[4];
16    array[4] = temp;
17    cout << "Array after swapping [2] and [4]: ";
18    for (int i = 0; i < 5; ++i) {
19        cout << array[i] << " ";
20    }
21 }
```

Compiler Log:

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Salarazam\OneDrive\Documents\Sal1.exe
- Output Size: 1.83291145139404 MiB
- Compilation Time: 1.19s