



Fundamental of Programing

Lab Manual # 08

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Section: C

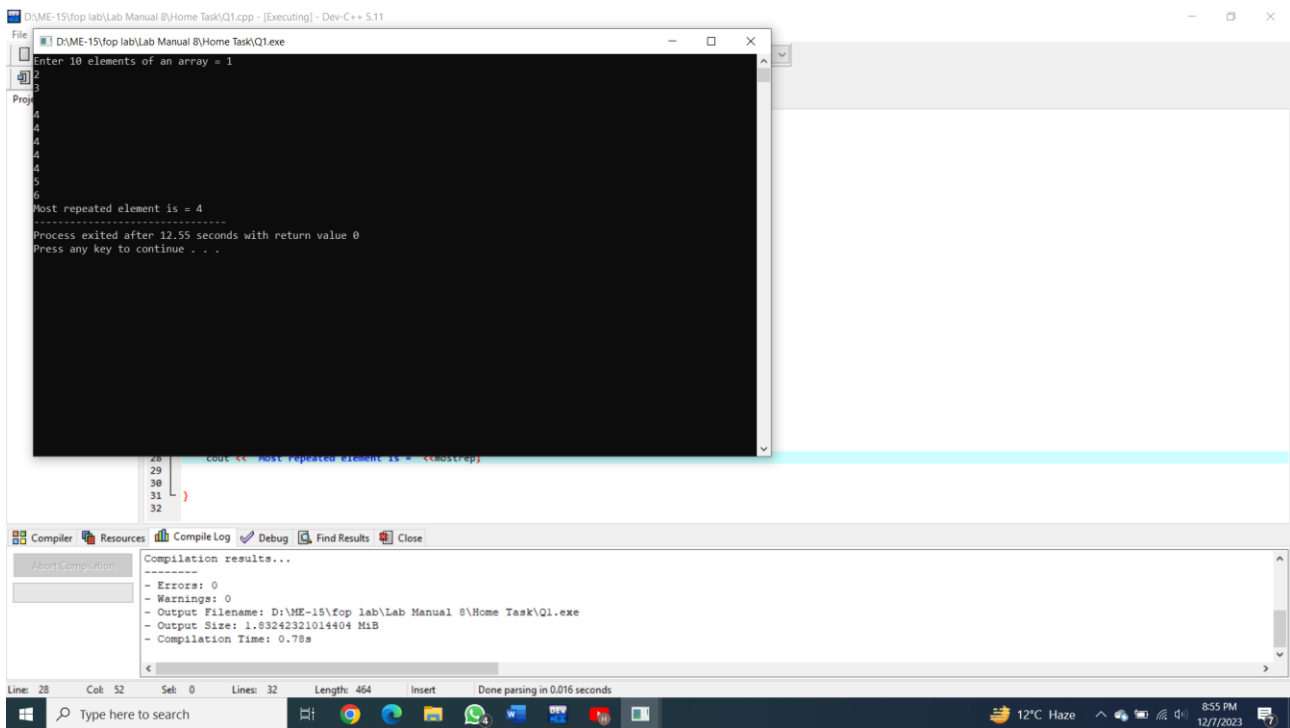
Q1(Home Task)

```
#include<iostream>
using namespace std;
```

```
int main()
{
int a[10],mostrep,sum1=0;
cout << "Enter 10 elements of an array = ";
for(int i= 1;i <= 10;i++){
cin>>a[i];
}
for(int i = 1;i <= 10;i++){
```



```
int sum = 0;
for(int j = 1; j <= 10; j++){
    if (a[i]==a[j]){
        sum = sum + 1;
    }
}
if (sum > sum1){
    sum1 = sum;
    mostrep = a[i];
}
}
cout << "Most repeated element is = "<<mostrep;
}
```



Q3(Home Task)

```
#include<iostream>
using namespace std;
```

```
int main()
{
```



```
int a[5],temp;
cout << "Enter 5 elements of an array:";

for(int i=0;i<=4;i++){
cin>>a[i];
}

temp = a[2];
a[2] = a[4];
a[4] = temp;
cout << "The array after swaping is = "<<endl;

for(int i=0; i <= 4; i++){
cout << " "<< a[i];
}

}
```

The screenshot shows the Dev-C++ IDE with a C++ program that prompts the user to enter 5 elements of an array. The user has entered the values 2, 3, 4, 5, and 6. The program then displays the array after swapping, which is 2, 3, 6, 5, and 4. The output window shows the following text:

```
Enter 5 elements of an array:2 3 4 5 6
The array after swaping is =
2 3 6 5 4
-----
Process exited after 7.007 seconds with return value 0
Press any key to continue . . .
```

The bottom status bar of the IDE shows the following information:

- Line: 25, Col: 1, Sel: 0, Lines: 25, Length: 340, Insert, Done parsing in 0 seconds
- Compiler: GCC 4.9.2 64-bit Release
- Output: D:\ME-15\top lab\Lab Manual 8\Home Task\Q3.exe
- Output Size: 1.83260917663574 MiB
- Compilation Time: 0.81s

Q2(Home Task)

```
#include<iostream>
```



```
using namespace std;
```

```
int main(){  
int a[8] = {77, 18, 21, 50, 1000, 9, 1, 5};  
int max = 0, min;
```

```
for(int i=0;i<=7;i++){  
for (int j=0;j<=7;j++){
```

```
if (a[j] > a[i] && a[j] > max){  
max = a[j];  
}  
}  
}
```

```
cout << "The largest number is:"<<max;  
min = max;
```

```
for(int i = 0; i <= 7; i++){  
for (int j=0; j<=7; j++){  
if (a[j] < a[i] && a[j] < min){  
min = a[j];  
}  
}  
}  
cout <<endl<<"The smallest number is:"<< min;  
}
```



```
D:\ME-15\top lab\Lab Manual 8\Home Task\Q2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
D:\ME-15\top lab\Lab Manual 8\Home Task\Q2.exe
Project Class
The largest number is:1000
The smallest number is:1
-----
Process exited after 0.89077 seconds with return value 0
Press any key to continue . . .
Compiler Resources Compile Log Debug Find Results Close
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: D:\ME-15\top lab\Lab Manual 8\Home Task\Q2.exe
- Output Size: 1.83309745788574 KiB
- Compilation Time: 0.77s
Line: 30 Col: 1 Set: 503 Lines: 30 Length: 505 Insert Done parsing in 0 seconds
Type here to search 12°C Haze 9:03 PM 12/11/2023
```