

## fop home task lab manual 8 :

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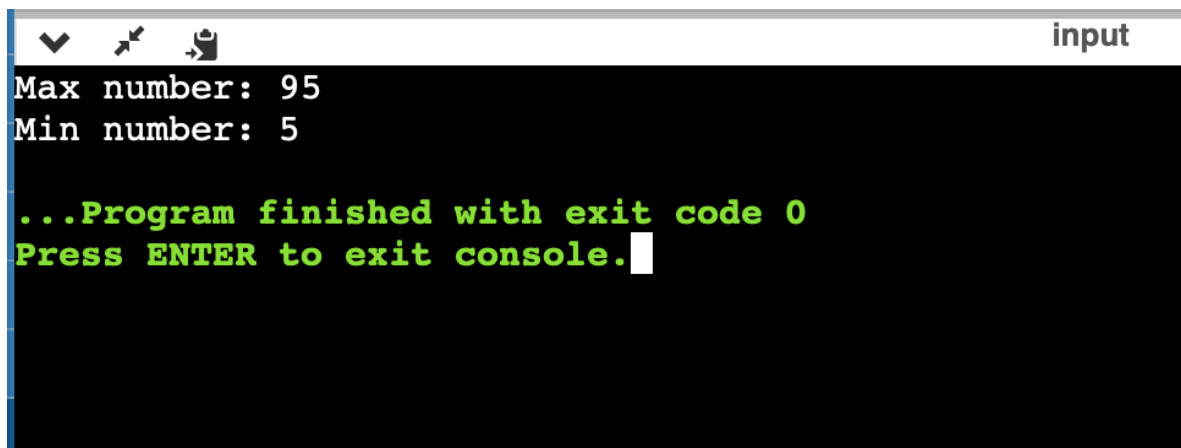
home task 1:

```
#include <bits/stdc++.h>
using namespace std;
int main(){
    int x;
    cout<<"enter the number of elements"<<endl;
    cin>>x;
    int array[x];
    cout<<"enter the elements : "<<endl;
    for(int k=0;k<x;k++){
        cin>>array[k];
    }
    cout<<"the most repeated elements in the array are : "<<" ";
    for(int k=0;k<x;k++){
        bool repetation=false;
        for(int l=0;l<k;l++){
            if(array[k]==array[l]){
                repetation=true;
                break;
            }
        }
        if(!repetation){
            for(int l=k+1;l<x;l++){
                if(array[k]==array[l]){
                    cout<<array[k]<<" ";
                    break;
                }
            }
        }
    }
    return 0;
}
```

```
enter the number of elements
8
enter the elements :
3
4
5
6
7
6
5
4
the most repeated elements in the array are : 4 5 6
```

task 2:

```
#include <bits/stdc++.h>
using namespace std;
int main(){
    int array[8]={13,5,17,9,95,77,65,43},max=0;
    int i,temp=0;
    for(i=1;i<8;i++){
        if(array[max]<array[i]){
            temp=array[max];
            array[max]=array[i];
            array[i]=temp;
        }
    }
    int j,min=7,temp2=0;
    for( j=1;j<8;j++){
        if(array[min]>array[j]){
            temp2=array[min];
            array[min]=array[j];
            array[j]=temp2;
        }
    }
    cout<<"Max number: "<<array[max]<<endl;
    cout<<"Min number: "<<array[min];
    return 0;}
```

A screenshot of a console window with a title bar that says "input". The window has standard Windows window controls (minimize, maximize, close) on the left. The console output is as follows:  
Max number: 95  
Min number: 5  
  
...Program finished with exit code 0  
Press ENTER to exit console.  
The text is in a monospaced font, and the last line has a white cursor at the end.

task 3:

```
#include <bits/stdc++.h>
using namespace std;
int main(){
    int array[5];
    for(int k=0;k<5;k++){
        cout<<"Enter integer "<<k+1<<" :";
        cin>>array[k];
        cout<<endl;
    }

    int temp=0;
    temp=array[4];
    array[4]=array[2];
    array[2]=temp;
    cout<<"Array after swapping = ";
    for(int l=0;l<5;l++){
        cout<<array[l];
    }
    return 0;
}
```

```
/tmp/nLmZrto4e4.o
```

```
Enter integer 1 :4
```

```
Enter integer 2 :7
```

```
Enter integer 3 :5
```

```
Enter integer 4 :3
```

```
Enter integer 5 :8
```

```
Array after swapping = 47835|
```