

Lab Manual 8 Home Tasks:

```
Q1) #include <bits/stdc++.h>
using namespace std;
int main(){
    int n;
    cout<<"no. elements for array: ";
    cin>>n;
    int arr[n];
    cout<<"elements: ";
    for(int i=0;i<n;i++){
        cin>>arr[i];
    }
    cout<<"the most repeated element is"<<" ";
    for(int i=0;i<n;i++){
        bool repetition=false;
        for(int j=0;j<i;j++){
            if(arr[i]==arr[j]){
                repetition=true;
                break;
            }
        }
        if(!repetition){
            for(int j=i+1;j<n;j++){
                if(arr[i]==arr[j]){
                    cout<<arr[i]<<" ";
                    break;
                }
            }
        }
    }
    return 0;
}
```

Output

```
/tmp/cZ11EzcjW5.o
no. elements for array: 6
elements: 2 3 4 5 6 5
the most repeated element is 5
```

```
Q2) #include <bits/stdc++.h>
using namespace std;
int main(){
    int arr[8]={13,15,17,9,99,77,65,43},max=0;
    int i,temp=0;
    for(i=1;i<8;i++){
        if(arr[max]<arr[i]){
            temp=arr[max];
            arr[max]=arr[i];
            arr[i]=temp;
        }
    }
    int j,min=7,temp2=0;
    for( j=1;j<8;j++){
        if(arr[min]>arr[j]){
            temp2=arr[min];
            arr[min]=arr[j];
            arr[j]=temp2;
        }
    }
    cout<<"Max number: "<<arr[max]<<endl;
    cout<<"Min number: "<<arr[min];
    return 0;}
```

Output

/tmp/cZ11EzcjW5.o

Max number: 99

Min number: 9

```
Q3) #include <bits/stdc++.h>
using namespace std;
int main(){
    int arr[5];
    for(int i=0;i<5;i++){
        cout<<"Enter integer "<<i+1<<" : ";
        cin>>arr[i];
        cout<<endl;
    }

    int temp=0;
    temp=arr[3];
    arr[3]=arr[1];
    arr[1]=temp;
    cout<<"Result: ";
    for(int j=0;j<5;j++){
        cout<<arr[j];
    }
    return 0;}
```

Output

```
/tmp/cZ11EzcjW5.o
Enter integer 1 : 3
Enter integer 2 : 4
Enter integer 3 : 5
Enter integer 4 : 6
Enter integer 5 : 7
Result: 36547
```