### Jonathan Sharif (474228)

## Lab manual 8(home tasks):

### Question 1:

```
int main(){
    int n, array[n], arr[1000];
    cout<<"enter the number of elements you want in the array";
    cout<<"Enter the elements of the array";</pre>
    for(int i=0; i<n; i++){
        cin>>array[i];
    for(int i=0; i<n; i++){
        cout<<array[i]<<" ";
    cout<<endl;
    for(int i=0; i<1000; i++){
        arr[i]=0;
    int max=-1;
    for(int i=0; i<n; i++){
        arr[array[i]]++;
        if(arr[array[i]]>max){
            max=array[i];
    }
    cout<<"the most repeated element is "<<max<<endl;
    cout<<"The number of times it is repeated is "<<arr[max];</pre>
```

```
enter the number of elements you want in the array5
Enter the elements of the array2
2
3
4
5
2 2 3 4 5
the most repeated element is 2
The number of times it is repeated is 2
```

### Question 2:

```
#include <iostream>
 using namespace std;
int main(){
     int array[8], temp;
     cout<<"Enter the elements of the array";</pre>
      for(int i=0; i<8; i++){
         cin>>array[i];
     for(int i=0; i<8; i++){
          for(int j=0; j<7-i; j++){
              if(array[j]>array[j+1]){
                  temp=array[j];
                  array[j]=array[j+1];
                  array[j+1]=temp;
     for(int i=0; i<8; i++){
         cout<<array[i]<<" ";
     cout<<endl;
     cout<<"The smallest integer is "<<array[0]<<endl;</pre>
     cout<<"the largest integer is "<<array[7]<<endl;</pre>
     return 0;
}
```

# Question 3:

```
#include <iostream>
 using namespace std;
int main(){
     int array[5],temp;
     cout<<"Enter the elements of the array";</pre>
     for(int i=0; i<5; i++){
         cin>>array[i];
     for(int i=0; i<5; i++){
         cout<<array[i]<<" ";
     cout<<endl;
     temp=array[1];
     array[1]=array[3];
     array[3]=temp;
     for(int i=0; i<5; i++){
         cout<<array[i]<<" ";
     return 0;
H
```

```
Enter the elements of the array1 2 3 4 5
1 2 3 4 5
1 4 3 2 5
-----
Process exited after 9.592 seconds with return value 0
Press any key to continue . . .
```