1. Take an array and find the most repeated element in that array.

```cpp
using namespace std;

int main()
{int x,repeat,num,repeatnum;
repeat=0;
    cout << "how many values do you want in your array" << endl;
    cin>>x;
    int array[x];
    for (int i=0;i<x;i++){
    cout<<"enter value"<<i+1<<endl;
    cin>>array[i];
    }
    for (int i=0;i<x;i++){
        int num=1;
      for (int j=0;j<x;j++){
           if(j==i){
             continue;
           }
         if(array[j]==array[i]){
         num++;
         }
      }
      if(num>repeat){
           repeatnum=array[i];
           repeat=num;
      }
    }
    cout<<"the most repeated element is  "<<repeatnum<<endl;

    return 0;
}
```

```
how many values do you want in your array
7
enter value1
2
enter value2
3
enter value3
4
enter value4
4
enter value5
1
enter value6
2
enter value7
2
the most repeated element is  2

Process returned 0 (0x0)   execution time : 16.330 s
Press any key to continue.
```

2. Let's say an array is a[8] = {13, 15, 17, 9, 99, 77, 65, 43}.
Find largest and smallest element.

```cpp
#include <iostream>

using namespace std;

int main()
{int array[8]={13,15,17,9,99,77,65,43};
int smallest,largest,pointer;
pointer=0;
smallest=array[pointer];
    largest=array[pointer];
for(int i=0;i<8;i++){
    if(array[i]<smallest){
    smallest=array[i];
    }
     if(array[i]>largest){
     largest=array[i];


    }



}
    cout << "largest value is"<<largest << endl;
     cout << "smallest value is"<<smallest << endl;
    return 0;
}
```

```
largest value is99
smallest value is9

Process returned 0 (0x0)   execution time : 0.064 s
Press any key to continue.
```

3. Develop a program that takes 5 array elements from user. Swap position [2] element with position [4] element. (Hint: Use the same method of swapping values we used for variables using a third variable temp).

```cpp
#include <iostream>

using namespace std;

int main()
{int array[5],temp;
for (int i=0;i<5;i++){
    cout<<"enter value"<<i+1<<endl;
    cin>>array[i];
    }
    cout<<endl;
    temp=array[2];
    array[2]=array[4];
    array[4]=temp;
    cout<<"your new array is "<<endl;
    for (int i=0;i<5;i++){
    cout<<array[i]<<endl;
    }

    return 0;
}
```

```
enter value1
4
enter value2
2
enter value3
3
enter value4
1
enter value5
0

your new array is
4
2
0
1
3

Process returned 0 (0x0)   execution time : 4.959 s
Press any key to continue.
```