Problem Solving-------

1- Finding two Significant elements of the array.

Code—

```cpp
#include<iostream>

using namespace std;

int findTwoSignificantElements(int *arr, int n)
{
  int i, j, count = 0;
  for(i = 0; i<n; i++)
  {
      for(j = 0; j<n; j++)
      {
          if(arr[i] < arr[j])
          {
              count++;
              if(count==2)
              {
                  cout<<arr[i] <<" ";
                  break;
              }
          }
      }

          count = 0;
  }
}
int main()
```

```cpp
{
    int n, i;
    cout<<"Enter the size of the array"<<endl;
    cin>>n;

    int arr[n];

    cout<<"Enter the array's elements"<<endl;
    for(i = 0; i<n; i++)
    {
        cin>>arr[i];
    }


    findTwoSignificantElements(arr, n);


    return 0;
}


// finding significant elements------

//12, 23, 4, 6, 78
//
//1-> 12> 23, 78 true
//2-> 4>  6, 12, 23, 78 true
//3-> 6>  12, 23, 78 true
//4-> 23> 78(only one elements) false
//last one false
```

Output:-

```
Enter the size of the array
6
Enter the array's elements
34 12 45 67 9 2
34 12 9 2
--------------------------------
Process exited after 24.14 seconds with return value 0
Press any key to continue . . .
```

2- Finding Most frequent elements into the array-----

Code—
```cpp
#include<iostream>

using namespace std;

int mostFrequentElements(int *arr, int n)
{
        int i,j, count, countPrev = 0;
        int temp = -1;

        for(i = 0; i<n; i++)
        {
                count = 1; // on each new iteration of i counter set 1
                for(j = i+1; j<n; j++) // here j = i+1 so that array out of bound eroor will not occur
                {
                        if(arr[i] == arr[j])
                        {
                                count++;
                        }
```

```cpp
                }

            if(count>countPrev) // if getting higher frequency
then updating the counter value
            {
                    countPrev = count;
                    temp = arr[i];      // storing mostFrequent
elements then previousOne
            }

    }

    cout<<"Most Frequent Element is: "<<temp<<":: Occures
::"<<countPrev<<"::Times"<<endl;



}
int main()
{
    int n, i;
  cout<<"Enter the size of the array"<<endl;
  cin>>n;

  int arr[n];

  cout<<"Enter the array's elements"<<endl;
  for(i = 0; i<n; i++)
  {
     cin>>arr[i];
       }
```

```
        mostFrequentElements(arr, n);


        return 0;
}


// mostFrequentElements


//12 23 34 5 12 23 34, 5, 34, 23, 34;
//1st iteration----
//12 -> 2 times = countPrev = 2
//23 -> 3 times = countPrev = 3
//34 -> 4 times = countPrev = 4
```

Output—

```
Enter the size of the array
6
Enter the array's elements
12 2 4 5 4  8
Most Frequent Element is: 4:: Occures ::2::Times

-------------------------------
Process exited after 27.39 seconds with return value 0
Press any key to continue . . .
```