FUNDAMENTALS OF PROGRAMING

(Lab manual-8)

HOMETASK

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TASK-1: Take an array and find the most repeated element in that array

```
#include<iostream>
     using namespace std;
 2
 3 ☐ int main(){
         //Take an array and find the most repeated element in that array
 5
         cout<<"TASK-1"<<endl;
 6
 7
         int x;
 8
         cout<<"enter the no. of elements in array: "<<endl;
 9
         cin>>x;
10
11
         cout<<"enter the value of each element: "<<endl;
12
         int arr[x];
13 🖨
         for( int i=0 ; i<x ; i++){
14
             cin>>arr[i];
15
16
             int count=0;
             cout<<"repeating no.s are: "<<endl;</pre>
17
18 🖨
             for( int i=0 ; i<x ;i++){
19 🖨
                 for( int j=i+1; j<x; j++){
20 🖃
                     if(arr[i]==arr[j]){
                         cout << arr[j] << " , ";
21
22
23
24
25
             return 0;
26 L }
```

OUTPUT:

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

```
#include<iostream>
    using namespace std;
 3
    int main()
 4 □ {
 5
         //a[8]={13, 15, 17, 9, 99, 77, 65, 43}. Find largest and smallest element
 6
         cout<<"TASK-2"<<endl;
 7
         cout<<"array: "<<endl;
          int arr[8] = {13,15,17,9,99,77,65,43};
 8
 9日
          for( int i=0 ; i<8 ; i++){
10
            cout<<arr[i]<<endl;
          }
11
12
          int max=arr[0] , min=arr[0];
13
          max = arr[0];
14 🖨
         for(int i=1; i<8; i++){
15 🗀
            if( max<arr[i] ){
16
                max=arr[i];
17
          }
18
19
          cout<<"max:"<<max<<" ";
20
21
          min = arr[0];
22 🖹
         for(int i=0; i<8; i++){
23 🖨
             if( min>arr[i]) {
24
              min=arr[i];
25
             }
26
27
28
          cout<<"min:"<<min<<" ";
29
          return 0;
30 L }
```

OUTPUT:

TASK-3: Develop a program that takes 5 array elements from user. Swap position [2] element with position [4] element.

```
#include<iostream>
 2
     using namespace std;
 3
     int main()
 4 🗏 {
 5
         //Develop a program that takes 5 array elements from user. Swap position [2]
 6
        //element with position [4] element.
 7
         cout<<"TASK-3"<<endl;
 8
 9
          int arr[5];
10
         cout<<"value of 5 elements"<<endl;
11 🗏
         for (int i=0; i<5; i++){
12
             cin>>arr[i];
13
14
         cout<<"array:"<<endl;
15 🗎
         for (int i=0; i<5; i++){
16
             cout<<arr[i]<<" ";
17
18
         cout<<endl;
19
         int temp;
20
         temp=arr[4];
21
         arr[4]=arr[2];
22
         arr[2]=temp;
23
         cout<<"swapped positions:"<<endl;
24 🗏
         for (int i=0;i<5;i++){
25
             cout<<arr[i]<<" ";
26
27
         return 0;
28 L }
```

OUTPUT: