#### **LAB MANUAL:8**

# **TALHA RAFIQUE**

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**SECTION:C** 

#### **HOME TASK:**

## Question:1

```
es | | | [*] Untitled1.cpp
         9
                    int mostRe 
■ C:\Users\hp
                         Enter the size of the array: 16

(int First the array elements:
if (from strepeated element is: 3

mt most repeated element is: 3
         10
         12
13
                     for (int
                    return mos<sup>p</sup>rocess exited after 50.38 seconds with return value 0
Press any key to continue . . .
         15
16
         18
19
         20
         21
22
23
         24
25 = int main() {
26 | int n;
                    int n;
         27
                     cout << "Enter the size of the array: ";
         28
         29
                    int arr[1000];
cout << "Enter the array elements:\n";
for (int i = 0; i < n; ++i)
     cin >> arr[i];
         30
         31
32
         33
34
35
                    cout << " most repeated element is: " << findMostRepeatedElement(arr, n) << endl;</pre>
         36
         37
                     return 0;
         38 L }
             Sel: 0
                         Lines: 39 Length: 845 Insert Done parsing in 8.421 seconds
```

### Question:2

```
(globals)
Classes • • Untitled1.cpp
             1 #include <iostream>
                 using namespace std;
             3 ☐ int main() {
                      int arr[] = {13, 15, 17, 9, 99, 77, 65, 43};
int size = sizeof(arr) / sizeof(arr[0]);
                      int smallest = arr[0], largest = arr[0];
             8
                      for (int i = 1; i < size; ++i) {
   smallest = min(smallest, arr[i]);</pre>
             9白
             10
             11
                           largest = max(largest, arr[i]);
            12
            13
                     cout << "Smallest element: " << smallest << endl;
cout << "Largest element: " << largest << endl;</pre>
             14
             15
             16
           C:\Users\hp\Desktop\Untitled1.exe
           mallest element: 9
argest element: 99
           rocess exited after 0.1691 seconds with return value 0
            ress any key to continue . . .
```

### **Question:3**

```
| 💀 🖥 🖷 | 📇 | 🦘 🚜 | US. US. | 🖶 | 🖷 🖷 | US. 
(globals)
  Classes • • Untitled1.cpp
                                                   1 #include <iostream>
                                                                   using namespace std;
                                                     3 ☐ int main() {
                                                                                       const int size = 5;
                                                                                      int arr[size];
                                                     6
                                                                                        cout << "Enter 5 array elements:" << endl;</pre>
                                                     8
                                                                                       for (int i = 0; i < size; ++i)
                                                     9
                                                                                              cin >> arr[i];
                                                                        cout << "Original array: ";
  for (int i = 0; i < size; ++i)
      cout << arr[i] << " ";</pre>
                                                 10
                                                 11
                                                 12
                                                                                         cout << endl;
                                                 13
                                                                       if (size >= 5) {
                                                 14 🛱
                                                 15
                                                                                                          swap(arr[2], arr[4]);
                                                                                                    cout << "Array after swapping positions 2 and 4: ";
for (int i = 0: i < size: ±ti)
cour ■ Select G\Users\hp\Desktop\Unitiled1.exe
                                                 16
                                                17
                                                 18
                                                19
                                                                                                          cout <Enter 5 array elements:
                                                 20
                                                                                        } else {
                                                 21
                                                                                                       cout
                                                 22
                                                 23
                                                                                        return 0; 5
Original array: 1 2 3 4 5
Array after swapping positions 2 and 4: 1 2 5 4 3
                                                 24
                                                 25
                                                 26
```