FUNDAMENTALS OF PROGRAMMING

LAB MANUAL 8

HOME TASK 8

ABDUL MOIZ 464834 SECTION B

```
#include<iostream>
using namespace std;
int main()
{// Task # 1
int arr[6] = \{2,3,4,2,6,2\};
int MRE = arr[0];
int max = 1;
for (int i = 0; i < 6; i++)
{
int occurences = 1;
for (int j = i + 1; j < 6; j++)
{
if (arr[i] == arr[j])
{
occurences++;
}
}
if (occurences > max)
max = occurences;
MRE = arr[i];
```

```
}
}
cout << "The most repeated element is " << MRE << endl;</pre>
cout << "With occurences = " << max;</pre>
return 0;
}
 Microsoft Visual Studio Debug Console
The most repeated element is 2
With occurences = 3
E:\Mechanical Engineering\Semester 1\FOP\Assignments\HT
To automatically close the console when debugging stops
le when debugging stops.
Press any key to close this window . . ._
{// Task # 2
int arr[8] = { 13,15,17,9,99,77,65,43 };
for (int i = 0; i < 7; i++)
{
for (int j = i + 1; j < 8; j++)
{
if (arr[j] < arr[i])</pre>
{
int temp = arr[j];
arr[j] = arr[i];
arr[i] = temp;
}
}
}
cout << "The smallest element in the array is : " << arr[0]<<endl;</pre>
```

```
cout << "The largest element in the array is : " << arr[7];</pre>
return 0;
}
 Microsoft Visual Studio Debug Console
The smallest element in the array is : 9
The largest element in the array is : 99
E:\Mechanical Engineering\Semester 1\FOP\Assignments\HT 8\x6
To automatically close the console when debugging stops, ena
le when debugging stops.
Press any key to close this window . . ._
{// Task # 3
  int n=5;
int arr[5];
cout << "Enter elements in array: ";
for (int i = 0; i < n; i++)
{
cin >> arr[i];
}
cout << "Element at position [2] before swapping is : " << arr[2] << endl;
cout << "Element at position [4] before swapping is : " << arr[4] << endl;
int temp = arr[4];
arr[4] = arr[2];
arr[2] = temp;
cout << "Element at position [2] after swapping is: " << arr[2] << endl;
cout << "Element at position [4] after swapping is : " << arr[4] << endl;
return 0;
}
```

```
Enter elements in array : 4

6

2

3

9

Element at position [2] before swapping is : 2

Element at position [4] before swapping is : 9

Element at position [2] after swapping is : 9

Element at position [4] after swapping is : 2

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To automatically close the console when debugging stops, enable Tools->Optic
le when debugging stops.

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```