Cpp Practicals\Q5\Q5.cpp

```cpp
1  /*
2  5.  Write a program to merge two ordered arrays to get a single ordered array
3  */
4
5
6  #include <iostream>
7  using namespace std;
8
9
10 void displayArray(int newarr[],int len);
11 int main()
12 {
13     int arr1[] = {1,2,3,15,65};
14     int arr2[] = {0,11,12,14};
15     int len1 = sizeof(arr1)/sizeof(int);
16     int len2 = sizeof(arr2)/sizeof(int);
17
18     int newarr[len1+len2];
19     for(int i = 0; i < len1; i++ )
20     {
21         newarr[i] = arr1[i];
22     }
23     for(int i = 0; i < len2; i++ )
24     {
25         newarr[i + len1] = arr2[i];
26     }
27
28
29     int n = sizeof(newarr)/sizeof(int);
30     for (int i = 0; i < n - 1; i++) {
31         for (int j = 0; j < n - i - 1; j++)
32         {
33             if (newarr[j] > newarr[j+1])
34             {
35                 int temp = newarr[j];
36                 newarr[j] = newarr[j+1];
37                 newarr[j+1] = temp;
38             }
39         }
40     }
41     cout<<"Orded Array 1 : "<<endl;
42     displayArray(arr1,len1);
43     cout<<"Orded Array 2 : "<<endl;
44     displayArray(arr2,len2);
45     cout<<"Orded Merged Array : "<<endl;
46     displayArray(newarr,n);
47
48 }
49 void displayArray(int newarr[],int len)
50 {
51     for(int i = 0; i < len; i++ )
52     {
53         cout<<newarr[i]<<" ";
54     }
55     cout<<endl;
56 }
```

```
/*

Output:

PS C:\Users\hp\Desktop\Cpp> cd "c:\Users\hp\Desktop\Cpp\Cpp Practicals\Q5\" ; if ($?) { g++
Q5.cpp -o Q5 } ; if ($?) { .\Q5 }
Orded Array 1 :
1 2 3 15 65
Orded Array 2 :
0 11 12 14
Orded Merged Array :
0 1 2 3 11 12 14 15 65
PS C:\Users\hp\Desktop\Cpp\Cpp Practicals\Q5>

*/
```