Report No: 1

Report Name: Write a program to Bubble sort in an array Code:

```
#include <iostream>
using namespace std;
int main()
{
  int n, i;
  cout << "Enter size of array: ";
  cin >> n;
  int myArray[n];
  for (i = 0; i < n; i++)
    cout << "Enter " << (i + 1) << " element: ";
    cin >> myArray[i];
  for (i = 0; i < n; i++)
    for (int j = 0; j < n - 1; j++)
      if (myArray[j] > myArray[j + 1])
        int temp = myArray[j];
        myArray[j] = myArray[j + 1];
        myArray[j + 1] = temp;
     }
    }
  cout << "Bubble Sort new array: ";
  for (i = 0; i < n; i++)
    cout << myArray[i] << " ";
                PS Z:\CSE All File\4th Semester\Data Structure\3
}
                ta Structure\3rd Lab Report\Report Code\" ; if (
                e Sort }
                Enter size of array: 5
                Enter 1 element: 300
                Enter 2 element: 199
                Enter 3 element: 355
                Enter 4 element: 255
                Enter 5 element: 65
                Bubble Sort new array: 65 199 255 300 355
                PS Z:\CSE All File\4th Semester\Data Structure\3
```

Report No: 2

Report Name: Write a program to Selection sort in an array Code:

```
#include <iostream>
using namespace std;
int main()
  int n, i, min;
  cout << "Enter size of array: ";
  cin >> n;
  int myArray[n];
  for (i = 0; i < n; i++)
    cout << "Enter " << (i + 1) << " element: ";
    cin >> myArray[i];
  for (i = 0; i < n; i++)
    min = i;
   for (int j = i + 1; j < n; j++)
      if (myArray[j] < myArray[min])</pre>
       min = j;
    int temp = myArray[i];
    myArray[i] = myArray[min];
    myArray[min] = temp;
  cout << "Seletion Sort new array: ";
  for (i = 0; i < n; i++)
    cout << myArray[i] << " ";
             PS Z:\CSE All File\4th Semester\Data Structure\3rd
}
             ta Structure\3rd Lab Report\Report Code\" ; if ($?)
             \Selection sort }
             Enter size of array: 6
             Enter 1 element: 36
             Enter 2 element: 65
             Enter 3 element: 20
             Enter 4 element: 45
             Enter 5 element: 600
             Enter 6 element: 6
             Seletion Sort new array: 6 20 36 45 65 600
             PS Z:\CSE All File\4th Semester\Data Structure\3rd
```

Report No: 3

Report Name: Write a program to Insertion sort in an array Code:

```
#include <iostream>
using namespace std;
int main()
  int n, i, min, temp;
  cout << "Enter size of array: ";
  cin >> n;
  int myArray[n];
  for (i = 0; i < n; i++)
    cout << "Enter " << (i + 1) << " element: ";
    cin >> myArray[i];
  for (i = 1; i < n; i++)
    temp = myArray[i];
    int j = i - 1;
    while (j \ge 0 \&\& myArray[j] > temp)
      myArray[j + 1] = myArray[j];
      j--;
    myArray[j + 1] = temp;
  cout << "Seletion Sort new array: ";</pre>
  for (i = 0; i < n; i++)
  {
    cout << myArray[i] << " ";
}
              ta Structure\3rd Lab Report\Report Code\"; if ($?) { g++
               \Insertion sort }
               Enter size of array: 7
               Enter 1 element: 650
               Enter 2 element: 456
               Enter 3 element: 987
               Enter 4 element: 355
               Enter 5 element: 54
               Enter 6 element: 89
               Enter 7 element: 700
               Insertion Sort new array: 54 89 355 456 650 700 987
               PS Z:\CSE All File\4th Semester\Data Structure\3rd Lab Reg
```