Lab Manual 08

Lab task submission

Task 01

```cpp
#include <iostream>

using namespace std;

int main ()

{

        int n,i;

        double array[1000],sum(0),avg;

        cout<<"enter the number of terms \n";

        cin>>n;

        if(n<0){

                cout<<"enter positive number \n";

                cin>>n;

        }

        else{

                cout<<"enter the terms\n";

                for(i=0;i<n;i++){

                        cin>>array[i];

                        sum+=array[i];

                }

                avg=sum/n;

                cout<<avg;


        }

}
```

```
enter the number of terms
5
enter the terms
1
2
3
4
6
3.2
-------------------------------
Process exited after 7.389 seconds with return value 0
Press any key to continue . . .
```

Task 02

#include <iostream>

using namespace std;

int main()

{

    int n;

    int array[n];

    int i,j,s,k;

    char x;

    do{

        cout<<"Input element to array: "<<endl;

        cin>>array[n];

        n++;

        cout<<"Do you want to continue. Input y if yes"<<endl;

        cin>> x;

    }while(x=='y');

    for (int step = 0; step < n; step++) {

```cpp
for (int i = 0; i < n - step; i++) {



    if (array[i] > array[i + 1]) {



        int temp = array[i];
        array[i] = array[i + 1];
        array[i + 1] = temp;
      }
    }
  }
  for(int l = 0; l<n; l++){
                cout<<array[l]<<' ';
        }
}
```

```
Input element to array:
4
Do you want to continue. Input y if yes
y
Input element to array:
2
Do you want to continue. Input y if yes
y
Input element to array:
8
Do you want to continue. Input y if yes
y
Input element to array:
1
Do you want to continue. Input y if yes
y
Input element to array:
3
Do you want to continue. Input y if yes
y
Input element to array:
2
Do you want to continue. Input y if yes
n
1 2 2 3 4 8
--------------------------------
Process exited after 32.23 seconds with return value 0
Press any key to continue . . .
```

Task 03

#include<iostream>

using namespace std;

int main()

{

   int n, arr[50], i, j, temp, small, k, index;

   cout<<"Enter the Size of Array: ";

```cpp
cin>>n;
cout<<"Enter "<<n<<" Array Elements: ";
for(i=0; i<n; i++)
    cin>>arr[i];
for(i=0; i<(n-1); i++)
{
    k=0;
    small = arr[i];
    for(j=(i+1); j<n; j++)
    {
        if(small>arr[j])
        {
            small = arr[j];
            k++;
            index = j;
        }
    }
    if(k!=0)
    {
        temp = arr[i];
        arr[i] = small;
        arr[index] = temp;
    }
}
cout<<"\nSorted Array is:\n";
for(i=0; i<n; i++)
    cout<<arr[i]<<" ";
cout<<endl;
return 0;}
```

```
C:\Users\TALHA SANGRASI\O    X    +    v

Enter the Size of Array: 5
Enter 5 Array Elements: 3
4
2
8
9

Sorted Array is:
2 3 4 8 9

---------------------------------
Process exited after 9.334 seconds with return value 0
Press any key to continue . . . |
```