LAB MANUAL 8: -

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SECTION	A

TASK 1: -

```cpp
#include <iostream>
using namespace std;
int main()
{
//TASK 1: -
int x;
cout<<"State number of elements in arrays: ";
cin>>x;
int arr[x];
int i, j, sum;
float avg;
sum=0;
cout<<"enter numbers: "<<endl;
for(int i=0;i<x;i++)
{
cin>>arr[i];
}
for(j=0;j<x;j++){
    sum+=arr[j];
}
    avg=sum/x;
    cout<<"avg: "<<avg;
```

```
State number of elements in arrays: 4
enter numbers:
23
12
44
66
avg: 36
--------------------------------
Process exited after 13.08 seconds with return value 0
Press any key to continue . . .
```

TASK 2: -

```cpp
//Task 2: -
int num[5];
int i, j, k, z, temp;
cout<<"state numbers: "<<endl;
for(i=0; i<5; i++){
    cin>>num[i];
}
for(j=0; j<5; j++){
    for(k=0; k<4; k++){
        if(num[k]>num[k+1]){
            temp=num[k+1];
            num[k+1]=num[k];
            num[k]=temp;

        }
    }
}

cout<<"elements in sequence: "<<endl;
for(z=0;z<5;z++){
    cout<<num[z]<<endl;
}
```

```
state numbers:
23
4
5
6
7
elements in sequence:
4
5
6
7
23

---------------------------------
Process exited after 2.862 seconds with return value 0
Press any key to continue . . .
```

TASK 3: -

```
49    //TASK 3: -
50    int arr [5] = {9,3,8,3,6};
51        int a=0;
52
53        for ( int i =0; i<5;i++)
54        {
55            a= arr[i];
56            for (int j=i;j<5;j++){
57
58            if (a>arr[j])
59            {
60                a=arr[j];
61                arr[j] = arr[i];
62                arr[i]=a;
63
64            }    }
65        }
66
67        for ( int i=0; i<5;i++ )  {
68            cout<<arr[i]<<" ";
69    }
70        return 0;
```

C:\Users\ACG\Desktop\C++\LAB TASK 8.exe

```
3 3 6 8 9
--------------------------------
Process exited after 0.1856 seconds with return value 0
Press any key to continue . . .
```