## Fundamentals of Programming

Name: Syed Asad Raza Zaidi

Section: ME-15A

Roll no: 464239

LabTAsk 8

## 1. Code to find average of integers of an array.

```
include<iostream>
using namespace std;
int main()
{
        int n;
         int arr[n];
         float sum=0, avg;
         cout<<"Enter lenght of array :";</pre>
         cin>>n;
         cout<<"Enter integers in the array :";</pre>
         for(int i=0; i<n; i++){
                 cin>>arr[i];
        }
        for(int i=0; i<n; i++){
                 sum += arr[i];
        }
```

## 2.Code to implement bubble sorting on an array of 6 integers.

```
{
  int arr[5];
  cout<<"Enter Integers in the array :";
  for(int i=0; i<5; i++){
      cin>>arr[i];
      }
    int temp=0;
    for(int i=0; i<5; i++){
      for(int j=0; j<4; j++ ){
        if(arr[j]>arr[j+1]){
        temp=arr[j];
        arr[j]=arr[j+1];
      arr[j+1]=temp;
}
```

```
}
          }
     }
     cout<<"The Sorted array is :";</pre>
     for(int i=0; i<5; i++){
          cout<<arr[i] <<" ";
     }
     return 0;
}
 Enter Integers in the array :12
23
 15
The Sorted array is :9 12 15 23 37
Process exited after 32.03 seconds with return value 0
 Press any key to continue . . .
```

3. Code to implement selection sorting on an array of 6 integers.

```
{
 int arr[5];
  int min;
  cout<<"Enter 5 numbers into the array:";
  for(int i=0;i<5;i++){
    cin>>arr[i];
  }
  for (int i=0; i<5; i++){
   min=arr[i];
   for (int j=i;j<5;j++){
    if(min>arr[j]){
      min=arr[j];
      arr[j]=arr[i];
      arr[i]=min;
    }
    }
 for(int i=0;i<5;i++){
 cout<<arr[i]<<" ";
 }
 return 0;
         ©:\ C:\C++ projects\Lab\LabTask{ ×
        Enter 5 numbers into the array :1
```