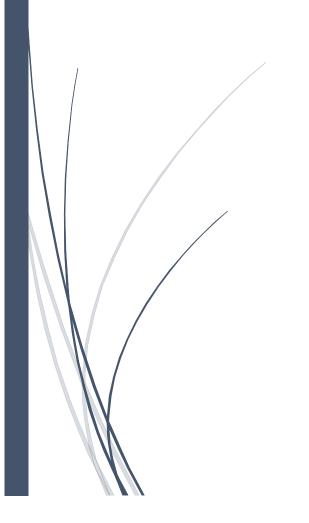
FUNDAMENTAL OF PROGRAMMING

LAB TASK 8

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Write a C++ program to calculate average of numbers of array.

CODE:

```
#include<iostream>
using namespace std;
int main(){
                                                 int x,num,sum=0;
cout<<"Enter the number of elements: ";
cin>>num;
int arr[num]={};
for(int i=1;i<=num;i++){</pre>
cout<<"Array no "<<i<": ";
cin>>arr[i];}
for(int j=1;j<=num;j++){</pre>
cout<<arr[j]<<" ";
sum=sum+arr[j];}
cout<<endl;
cout<<"Enter sum answer: "<<sum<<endl;
float z=sum,y=num;
cout<<"Average: "<<z/y;
}
```

OUTPUT:

```
Cyper Company Company
```

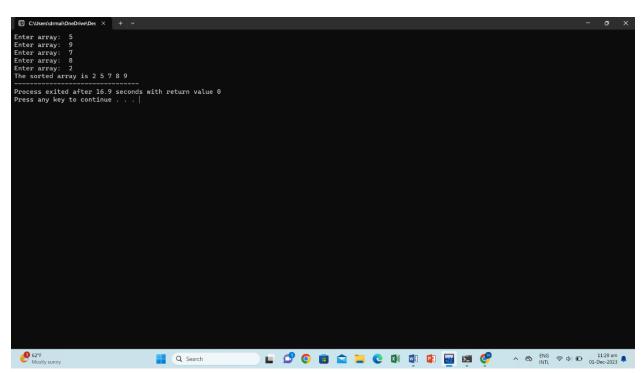
2. Implement Bubble sort on an array of 5 integers.

CODE:

```
#include<bits/stdc++.h>
using namespace std;
int main(){
int ele=5;
int arr[ele]={};
for (int i = 0; i<ele; i++)
{cout<<"Enter array: ";
cin>>arr[i];}
cout<<"The sorted array is ";
int c=1;</pre>
```

```
while (c<5){
    for(int i=0;i<5-c;i++){
    int toswap;
    if(arr[i]>arr[i+1]){
    toswap=arr[i];
    arr[i]=arr[i+1];
    arr[i+1]=toswap;}  }
    c++;}
    for(int i=0;i<ele;i++){
    cout<<arr[i]<<" ";
    }
    return 0;
}</pre>
```

OUTPUT:



3. Implement Selection Sort on an array of 5 integers.

CODE:

```
#include<iostream>
using namespace std;
int main(){
int x=5;
int arr[x]={};
for (int i = 1; i<=x; i++)
{ cout<<"Enter no"<<i<": ";
cin>>arr[i]; }
cout<<"Ascending order: ";</pre>
for(int j=1;j<=x;j++)
{ for(int k=j+1; k<=x; k++)
{ int swap;
if(arr[j]>arr[k]){
swap=arr[j];
arr[j]=arr[k];
arr[k]=swap; } }
cout<<arr[j]<<" "; }
cout<<endl;
return 0; }
```

OUTPUT:

