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SEMESTER: 1^{ST} **SEMESTER** (**SEC** A)

SESSION: UG ME-2023

COURSE TITLE: PROGRAMMING

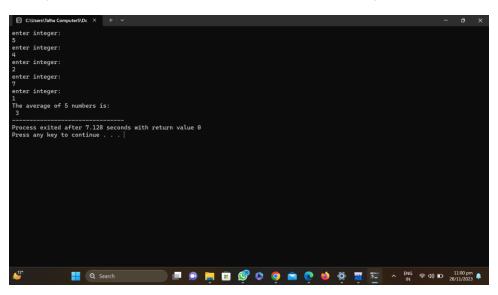
COURSE CODE: CS-114

LAB MANUAL 08

Write a C++ program to calculate average of numbers of array. int arr[5];

```
for(int i=0;i<=4;i++){
cout<<"enter integer: "<<endl;
cin>>arr[i];
}
```

cout<<"The average of 5 numbers is:\n
"<<(arr[0]+arr[1]+arr[2]+arr[3]+arr[4])/5;</pre>

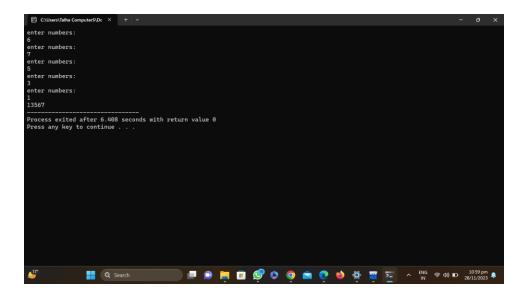


(2) Implement Bubble sort on an array of 5 integers.

int n[5];

int temp;

```
for(int i=0;i<=4;i++){
cout<<"enter numbers: "<<endl;</pre>
cin>>n[i];
}
for(int i=0;i<=4;i++){
for(int j=0; j<=3; j++){
if(n[j]>n[j+1]){
temp=n[j];
n[j]=n[j+1];
n[j+1]=temp;
}
}
for(int i=0;i<=4;i++){
cout<<n[i];
```



```
(3) Implement Selection Sort on an array of 5 integers.
int arr[5],i,j,min,temp;
for(i=0;i<5;i++){
cout<<"enter array of 5 elements: "<<endl;
cin>>arr[i];
cout<<"the original values in array:"<<endl;</pre>
for(i=0;i<5;i++){
cout<<arr[i]<<" ";
for(i=0;i<4;i++){
```

```
min=i;
for(j=i+i;j<5;j++){
if(arr[j]<arr[min])</pre>
min=j;
if (min!=i){
temp=arr[i];
arr[i]=arr[min];
arr[min]=temp;
}
}
cout<<"the sorted array: "<<endl;</pre>
for(i=0;i<5;i++)
cout<<arr[i]<<" ";
```

