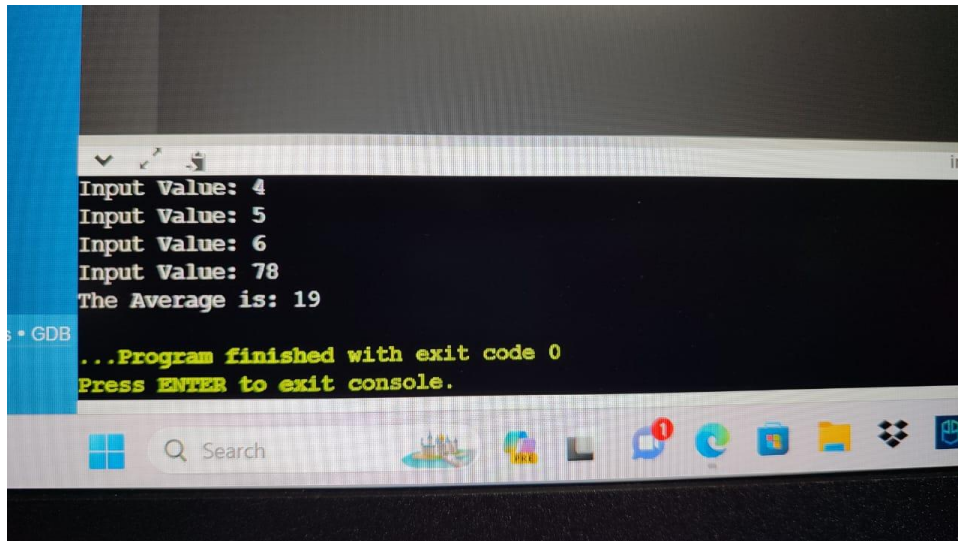# Lab manual 8:

Task 1:

1. #include<iostream>
2. using namespace std;
3. int main(){
4. int size, sum=0, avg=0;
5. cout<<"Enter Number of Elements of the Array:";
6. cin>>size;
7. int arr[size];
8. for(int i=0; i<size; i++){
9. cout<<"Input Value: ";
10. cin>>arr[i];
11. sum += arr[i];
12. }
13. avg=sum/size;
14. cout<<"The Average is: "<<avg;
15.
16. return 0;
17. }

18.

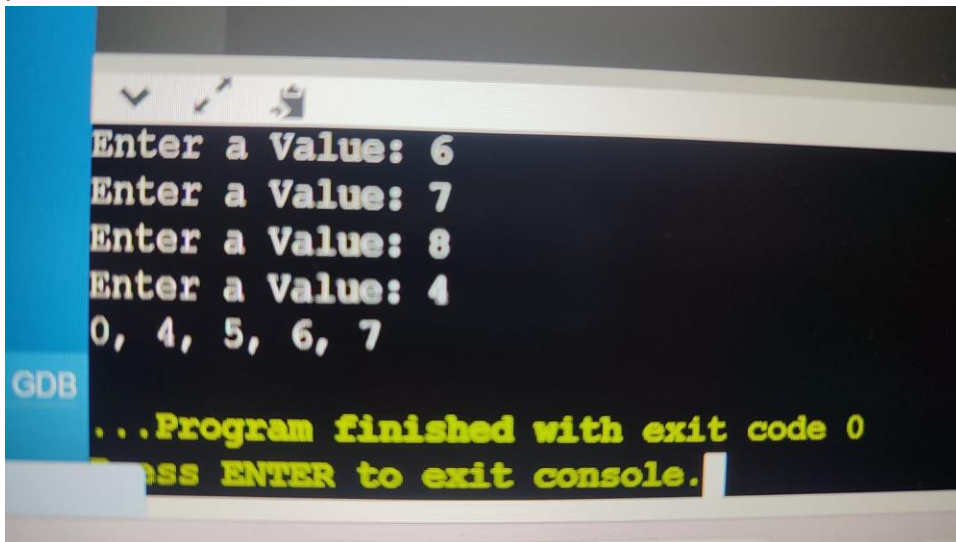## Task 2:

1. #include<iostream>
2. using namespace std;
3. int main(){
4. int arr[5];

```cpp
5.  int temp, i,j;
6.  for(i=0; i<5; i++){
7.  cout<<"Enter a Value: ";
8.  cin>>arr[i];
9.  }
10. for(i=0; i<5; i++){
11. for(j=0; j<5; j++){
12. if(arr[j]>arr[j+1]){
13. temp=arr[j+1];
14. arr[j+1]=arr[j];
15. arr[j]=temp;
16. }
17. }
18. }
19. for(i=0; i<4; i++){
20. cout<<arr[i]<<", ";
21. }
22. cout<<arr[4];
23. }
```

24.

Task 3:

```cpp
1.  #include<iostream>
2.  using namespace std;
3.
4.  int main(){
5.  int arr[5];
6.  int i,j, temp;
```
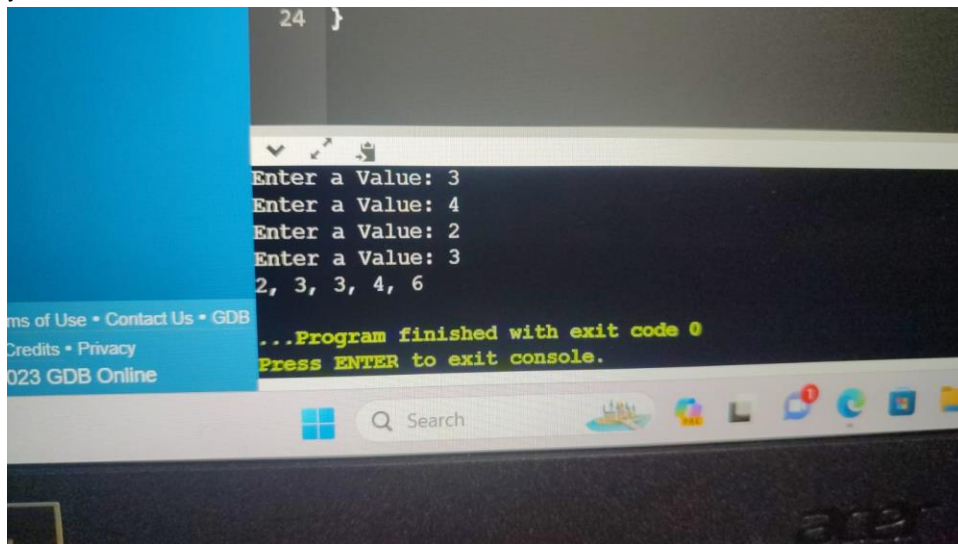
```cpp
7.  for(i=0; i<5; i++){
8.  cout<<"Enter a Value: ";
9.  cin>>arr[i];
10. }
11. for(i=0; i<5; i++){
12. for(j=i; j<5; j++){
13. if(arr[i]>arr[j]){
14. temp=arr[i];
15. arr[i]=arr[j];
16. arr[j]=temp;
17. }
18. }
19. }
20. for(i=0; i<4; i++){
21. cout<<arr[i]<<", ";
22. }
23. cout<<arr[4];
24. }
```



```
24 }

Enter a Value: 3
Enter a Value: 4
Enter a Value: 2
Enter a Value: 3
2, 3, 3, 4, 6

...Program finished with exit code 0
Press ENTER to exit console.
```

25.