

FUNDAMENTALS OF PROGRAMMING

LAB TASK # 8

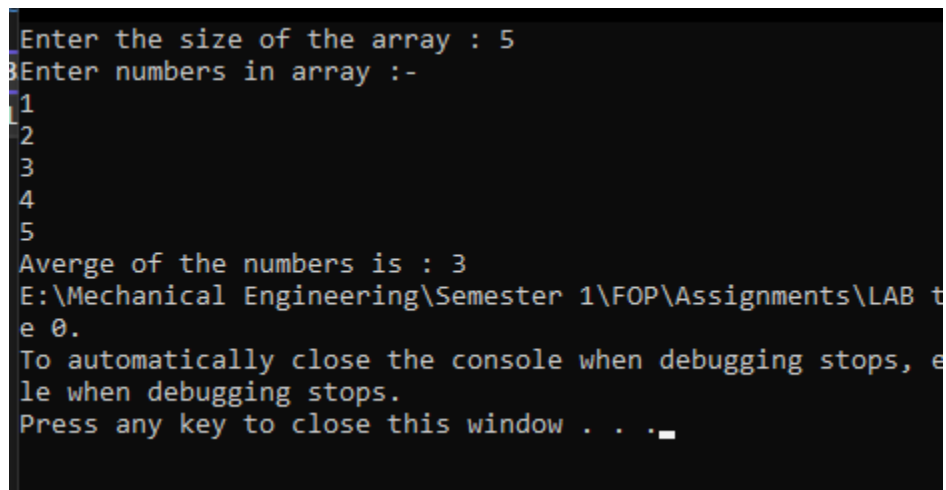
ABDUL MOIZ 464834 SECTION B

```
#include<iostream>
#include<cstring>
using namespace std;
int main()
TASK # 1
{
int sum ,avg,s;
int num[s];
sum=0;
cout<<"Enter the size of the array : ";
cin>>s;
cout<<"Enter numbers in array :- "<<endl
;
for(int i=0;i<s;i++)
{
cin>>num[i];
}
for(int i=0;i<s;i++)
```

```

{
sum=sum+num[i];
}
avg=sum/s;
cout<<"Averge of the numbers is : "<<avg;
return 0;
}

```



The screenshot shows a console window with the following text:

```

Enter the size of the array : 5
Enter numbers in array :-
1
2
3
4
5
Averge of the numbers is : 3
E:\Mechanical Engineering\Semester 1\FOP\Assignments\LAB t
e 0.
To automatically close the console when debugging stops, e
le when debugging stops.
Press any key to close this window . . .

```

TASK # 2

```

{
int a[6];

    cout << "Enter 6 integers into the array: \n";
    for (int i = 0; i <= 5; i++) {
        cin >> a[i];
    }
    for (int j = 0; j <= 5; j++)
{

```

```

        for (int k = 0; k <= 5; k++)
        {
            if (a[k] > a[k + 1])
            {
                swap(a[k], a[k + 1]);
            }
        }
    }
    cout << "The sorted values are: \n";
    for (int l = 0; l <= 5; l++)
    {
        cout << a[l] << "\n";
    }
    return 0;
}

```

```

Enter 5 integers into the array:
22
98
24
56
4
The sorted values are:
0
4
22
24
56

```

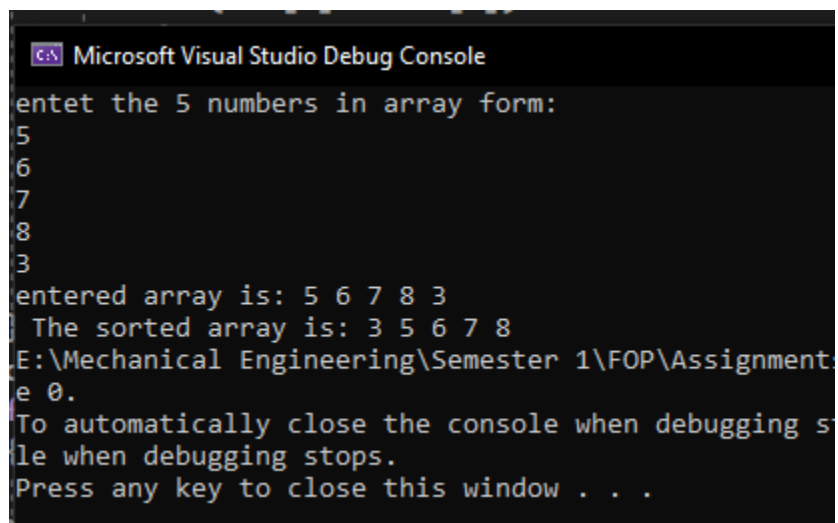
TASK # 3

```
{  
int temp = 0, arr[5];  
cout << "entet the 5 numbers in array form: " << endl;  
for (int i = 0; i < 5; i++)  
{  
cin >> arr[i];  
}  
cout << "entered array is: ";  
for (int j = 0; j < 5; j++)  
{  
cout << arr[j] << " ";  
}  
cout << endl;  
for (int k = 0; k < 4; k++)  
{  
int n = k;  
for (int x = k + 1; x < 5; x++)  
{  
if (arr[x] < arr[n])  
{  
n = x;
```

```

}
}
temp = arr[k];
arr[k] = arr[n];
arr[n] = temp;
}
cout << " The sorted array is: ";
for (int y = 0; y < 5; y++)
{
cout << arr[y] << " ";
}
return 0;
}

```



The screenshot shows the Microsoft Visual Studio Debug Console with the following output:

```

C:\> Microsoft Visual Studio Debug Console
entet the 5 numbers in array form:
5
6
7
8
3
entered array is: 5 6 7 8 3
] The sorted array is: 3 5 6 7 8
E:\Mechanical Engineering\Semester 1\FOP\Assignment.
e 0.
To automatically close the console when debugging s
le when debugging stops.
Press any key to close this window . . .

```