


FUNDAMENTAL OF PROGRAMMING

LAB TASK 8

NAME	ARBAB SAGHIR
CLASS	ME-15(A)
REG NO	470382
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TASK 1

```
#include<iostream>
using namespace std;
int main()
{
    int n,a[n],sum;
    float average;
    cout<<"Enter the value of n:";
    cin>>n;
    cout<<"Enter "<<n<<" values for array:";
    for(int i=0;i<n;i++)
    {
        cin>>a[i];
    }
    for(int i=0;i<n;i++)
    {
        sum=sum+a[i];
    }
    average=sum/n;
    cout<<"Average of "<<n<<" numbers is :"<<average;
}
```

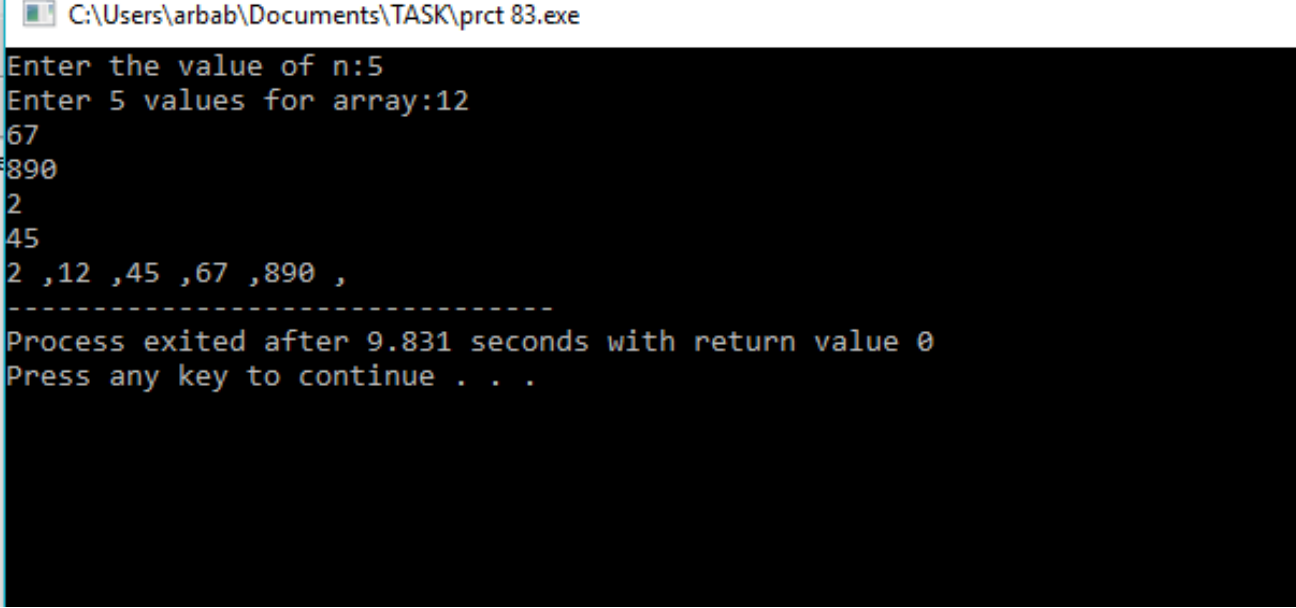
 C:\Users\arbab\Documents\TASK\task8 1.exe

```
Enter the value of n:5
Enter 5 values for array:3
4
6
8
10
Average of 5 numbers is :6.2
-----
Process exited after 11.68 seconds with return value 0
Press any key to continue . . .
```

TASK 2

BUBBLE SORTING

```
#include<iostream>
using namespace std;
int main()
{
    int n,a[n],m;
    cout<<"Enter the value of n:";
    cin>>n;
    cout<<"Enter "<<n<<" values for array:";
    for(int i=0;i<n;i++)
    {
        cin>>a[i];
    }
    for(int i=0;i<n;i++)
    {
        for(int j=0;j<n-1;j++)
        {
            if(a[j]>a[j+1])
            {
                m=a[j];
                a[j]=a[j+1];
                a[j+1]=m;
            }
        }
    }
    for(int i=0;i<n;i++)
    {
        cout<<a[i]<<" ,";
    }
}
```



```
C:\Users\arbab\Documents\TASK\prct 83.exe
Enter the value of n:5
Enter 5 values for array:12
67
890
2
45
2 ,12 ,45 ,67 ,890 ,
-----
Process exited after 9.831 seconds with return value 0
Press any key to continue . . .
```

TASK 3

SELECTION SORTING

```
#include<iostream>
using namespace std;
int main()
{
    int n,a[n],m;
    cout<<"Enter the value of n:";
    cin>>n;
    cout<<"Enter "<<n<<" values for array:";
    for(int i=0;i<n;i++)
    {
        cin>>a[i];
    }
    for(int i=0;i<n;i++)
    {
        for(int j=n-1;j>i;j--)
        {
            if(a[i]>a[j])
            {
                m=a[i];
                a[i]=a[j];
                a[j]=m;
            }
            else
            {
                a[i]=a[i];
            }
        }
    }
    for(int i=0;i<n;i++)
    {
        cout<<a[i]<<" ";
    }
}
```

C:\Users\arbab\Documents\TASK\task 8 2.exe

```
Enter the value of n:5
Enter 5 values for array:12
56
2
567
89
2,12,56,89,567,
-----
Process exited after 9.222 seconds with return value 0
Press any key to continue . . .
```