

Lab manual 8:

Name: Muhammad Ahmed Naseer

Sec: ME-15(A)

Reg No: 467276

Task#1:

```
#include<iostream>

using namespace std;

int main(){

    int num;

    float sum=0;

    float avg=0;

    float arr[num];

    cout<<"enter lenght of array:";

    cin>>num;

    for(int i=0;i<num;i++){

        cout<<"enter integers in array:";

        cin>>arr[i];

    }

    for(int j=0;j<num;j++){

        sum+=arr[j];

    }

    avg=sum/num;

    cout<<"average of numbers of array is:"<<avg;

    return 0;

}
```

```
enter lenght of array:5
enter integers in array:3
enter integers in array:2
enter integers in array:1
enter integers in array:6
enter integers in array:8
average of numbers of array is:4
-----
Process exited after 21.99 seconds with return value 0
Press any key to continue . . .
```

Task#2:

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int temp;
```

```
    int arr[5];
```

```
    cout<<"Enter 5 numbers into the array, one at a time."<<endl;
```

```
    for (int i=0;i<5;i++){
```

```
        cin>>arr[i];
```

```
    }
```

```
    for (int j=0;j<5;j++){
```

```
        for(int k=0;k<4;k++){
```

```
            if(arr[k]>arr[k+1]){
```

```
                temp=arr[k];
```

```
                arr[k]=arr[k+1];
```

```
                arr[k+1]=temp;
```

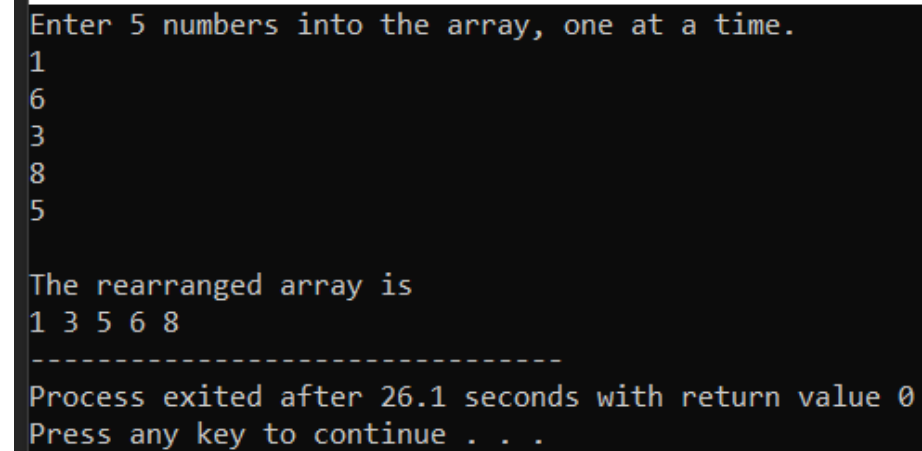
```
            }
```

```
        }
```

```

}
cout<<endl;
cout<<"The rearranged array is "<<endl;
for (int n=0;n<5;n++){
cout<<arr[n]<<" ";
}
}

```



```

Enter 5 numbers into the array, one at a time.
1
6
3
8
5

The rearranged array is
1 3 5 6 8
-----
Process exited after 26.1 seconds with return value 0
Press any key to continue . . .

```

Task#3:

```

#include<iostream>

using namespace std;

int main()
{
int num[5];

int x;

cout<<"Enter 5 numbers into the array one at a time."<<endl;

```

```
for(int i=0;i<5;i++){
    cin>>num[i];
}
for (int i=0;i<5;i++){
    x=num[i];
    for (int j=i;j<5;j++){
        if(x>num[j]){
            x=num[j];
            num[j]=num[i];
            num[i]=x;
        }
    }
}
for(int i=0;i<5;i++){
    cout<<num[i]<<" ";
}
}
```

Enter 5 numbers into the array one at a time.

7

8

92

4

6

4 6 7 8 92

Process exited after 17.95 seconds with return value 0

Press any key to continue . . .