# **Fundamentals of Programming**

Lab Task: 8

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## Task:1

#### Code:

```
#include <iostream>
using namespace std;
int main(){
int n;
cout<<"Enter length of Array"<<endl;</pre>
cin >> n;
  float arr[n],sum=0,average=0;
  cout<<"Enter integers: ";</pre>
  for(int i=0;i< n;i++)
  {cin>>arr[i]; }
  for (int i=0;i< n;i++)
  { cout << arr[i] << "";
    sum=sum+arr[i];
  average=sum/n;
  cout << endl;
  cout << "Mean is:" << average;
  return 0;
```

## Output:

## **Compile Result**

```
Enter length of Array
6
Enter integers: 4
5
6
6
7
455667
Mean is:5.5
[Process completed - press Enter]
```

## Task: 2

#### Code:

```
#include <iostream>
using namespace std;
int main() {
int n=5, arr[n], temp;
 cout<<"Enter five numbers"<<endl;</pre>
for(int i=0; i< n; i++){
  cin>>arr[i];
for(int i=0; i< n-1; i++){
  for(int j=0; j<=n-2; j++){
    if(arr[j]>arr[j+1]){
    temp=arr[j];
    arr[j]=arr[j+1];
    arr[j+1]=temp;
for(int i=0; i< n; i++){
  cout<<"["<<arr[i]<<"]"<<"";
  return 0;
```

#### Output:

### **Compile Result**

```
Enter five numbers

1

5

3

6

9

[1][3][5][6][9]

[Process completed - press Enter]
```

### Task: 3

#### Code:

```
#include <iostream>
using namespace std;
int main() {
int n=5, arr[n], temp;
 cout<<"Enter five numbers"<<endl;</pre>
for(int i=0; i< n; i++){
  cin>>arr[i];
for(int i=0; i< n; i++){
  for(int j=i; j< n; j++){
    if(arr[j]<arr[i]){</pre>
    temp=arr[j];
    arr[j]=arr[i];
    arr[i]=temp;
for(int i=0; i< n; i++){
  cout<<"["<<arr[i]<<"]"<<"";
}
  return 0;
```

#### Output:

## **Compile Result**

```
Enter five numbers

1
5
6
28
4
[1][4][5][6][28]
[Process completed - press Enter]
```

