```
Name: Areeb Ur Rehman.
CMS ID: 463157.
SEC-B.
COURSE:FOP
Task 1:
#include <iostream>
using namespace std;
int main() {
  int x, i;
  float num[100], sum = 0.0, average;
  cout << "Enter the numbers of data: ";
  cin >> n;
  while (x > 100 || x <= 0) {
     cout << "Error! number should be in range of (1 to 100)."
<< endl;
     cout << "Enter the number again: ";</pre>
     cin >> x;
  }
  for (i = 0; i < x; ++i) {
     cout << i + 1 << ". Enter number: ";
     cin >> num[i];
    sum += num[i];
```

}

```
average = sum / x;
cout << "Average = " << average;
return 0;
}</pre>
```

```
Enter the numbers of data: 5

1. Enter number: 6

2. Enter number: 3

3. Enter number: 4

4. Enter number: 8

5. Enter number: 2

Average = 4.6

...Program finished with exit code 0

Press ENTER to exit console.
```

TASK 3

```
#include<iostream>
using namespace std;
int main()
{
   int arr[5];
   cout<<"Enter 5 integers:"<<endl;
   for(int i=0;i<5;i++)
   {
      cin>>arr[i];
   }
   for(int i=0;i<4;i++)
   {
      int min=i;</pre>
```

```
for(int j=i+1;j<5;j++)
       if(arr[j]<arr[min])</pre>
          min=j;
       }
     int temp=arr[i];
     arr[i]=arr[min];
     arr[min]=temp;
  cout<<"Sorted array:"<<endl;
  for(int i=0;i<5;i++)
  {
     cout<<arr[i]<<" ";
  return 0;
}
                                                              input
  Enter 5 integers:
  Sorted array:
  2 3 4 5 9
  ...Program finished with exit code 0
  Press ENTER to exit console.
```

```
TASK 2
#include <iostream>
using namespace std;
void bubbleSort(int arr[], int n) {
  for (int i = 0; i < n - 1; i++) {
     for (int j = 0; j < n - i - 1; j++) {
        if (arr[i] > arr[i + 1]) {
          swap(arr[j], arr[j + 1]);
       }
     }
  }
int main() {
  int arr[5];
  cout << "Enter 5 integers: ";
  for (int i = 0; i < 5; i++) {
     cin >> arr[i];
  bubbleSort(arr, 5);
  cout << "Sorted array: ";
  for (int i = 0; i < 5; i++) {
     cout << arr[i] << " ";
  }
  cout << endl;
  return 0;
}
```

```
Enter 5 integers: 4
5
6
1
2
Sorted array: 1 2 4 5 6

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