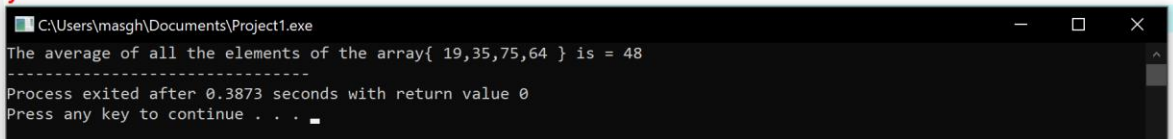


## FOP Lab Manual 8 Lab Tasks

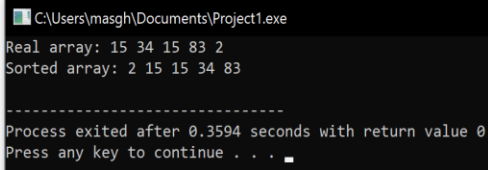
### Question#1:

```
Untitled2.cpp
1  #include<iostream>
2  using namespace std;
3
4  int main(){
5      int mubeen[4] = {19,35,75,64};
6      int average=0;
7      int sum=0;
8
9      sum= mubeen[0]+mubeen[1]+mubeen[2]+mubeen[3];
10     average=sum/4;
11
12     cout<<"The average of all the elements of the array{ "
13     <<mubeen[0]<<","<<mubeen[1]<<","<<mubeen[2]<<","<<mubeen[3]<<" } is = "<<average;
14     return 0;
15 }
16
```



### Question#2:

```
Untitled2.cpp
1  #include<iostream>
2  using namespace std;
3
4  int main() {
5      int numbers[] = {15, 34, 15, 83, 2};
6      int size = 5;
7      cout << "Real array: ";
8      for (int a=0; a < size; a++) {
9          cout << numbers[a] << " ";
10     }
11     cout << endl;
12     for (int a = 0; a < size - 1; a++) {
13         for (int j = 0; j < size - a - 1; j++) {
14             if (numbers[j] > numbers[j + 1]) {
15                 int calc = numbers[j];
16                 numbers[j] = numbers[j + 1];
17                 numbers[j + 1] = calc;
18             }
19         }
20     }
21     cout << "Sorted array: ";
22     for (int a = 0; a < size; a++) {
23         cout << numbers[a] << " ";
24     }
25     cout << endl;
26     return 0;
27 }
```



### Question#3:

```
Untitled2.cpp
1  #include<iostream>
2  using namespace std;
3
4  int main() {
5      int x[6] = {49, 24, 64, 83, 33, 16};
6      int min = 0;
7
8      for (int i = 0; i < 6; i++) {
9          min = x[i];
10         for (int j = i; j < 6; j++) {
11             cout << "min= " << min << " x[j]= " << x[j] << endl;
12             if (min > x[j]) {
13                 min = x[j];
14                 x[j] = x[i];
15                 x[i] = min;
16             }
17         }
18     }
19
20     for (int i = 0; i < 6; i++) {
21         cout << x[i] << " ";
22     }
23
24     return 0;
25 }
```

```
C:\Users\masgh\Documents\Project1.exe
min= 49 x[j]= 49
min= 49 x[j]= 24
min= 24 x[j]= 64
min= 24 x[j]= 83
min= 24 x[j]= 33
min= 24 x[j]= 16
min= 49 x[j]= 49
min= 49 x[j]= 64
min= 49 x[j]= 83
min= 49 x[j]= 33
min= 33 x[j]= 24
min= 64 x[j]= 64
min= 64 x[j]= 83
min= 64 x[j]= 49
min= 49 x[j]= 33
min= 83 x[j]= 83
min= 83 x[j]= 64
min= 64 x[j]= 49
min= 83 x[j]= 83
min= 83 x[j]= 64
min= 83 x[j]= 83
16 24 33 49 64 83
-----
Process exited after 0.06213 seconds with return value 0
Press any key to continue . . .
```