

LAB TASK 08
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```
#include <iostream>
using namespace std;

int main() {
    int n=5, i;
    double num[5], sum = 0.0, average;

    for(i = 0; i < n; ++i) {
        cout << i + 1 << ". Enter number: ";
        cin >> num[i];
        sum += num[i];
    }

    average = sum / n;
    cout << "Average = " << average;

    return 0;
}
```

D:\FOP LAB\LAB 07 TASKS\ASSIGNMENT 01 OR LAB 07 HW\array 1.exe

```
Enter number: 12
Enter number: 54
Enter number: 64
Enter number: 64
Enter number: 87
Average = 56.2
-----
Process exited after 7.089 seconds with return value 0
Press any key to continue . . .
```

QUESTION 2

```
#include <iostream>
using namespace std;
int main() {
    const int size = 5;
    int arr[size];

    cout << "Enter 5 integers for the array:" << endl;

    for (int i = 0; i < size; i++) {
        cin >> arr[i];
    }

    for (int i = 0; i < size - 1; i++) {
        for (int j = 0; j < size - i - 1; j++) {
            if (arr[j] > arr[j + 1]) {
                swap(arr[j], arr[j + 1]);
            }
        }
    }

    cout << "Sorted array using Bubble Sort: " << endl;
    for (int i = 0; i < size; i++) {
        cout << arr[i] << " ";
    }

    return 0;
}
```

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```
D:\FOP LAB\LAB 07 TASKS\ASSIGNMENT 01 OR LAB 07 HW\array 1.exe
74
56
90
55
Sorted array using Bubble Sort:
55 56 74 76 90
-----
Process exited after 18.65 seconds with return value 0
Press any key to continue . . .
```

Question no 3

```
#include <iostream>
using namespace std;
int main() {
    int arr[5] = {104, 68, 55, 36, 29};
    int n = 5;

    for (int i = 0; i < n - 1; i++) {
        int a = i;

        for (int j = i + 1; j < n; j++) {
            if (arr[j] < arr[a]) {
                a = j;
            }
        }

        swap(arr[a], arr[i]);
    }

    cout << "Array after sorting:" << endl;

    for (int i = 0; i < n; i++) {
        cout << arr[i] << " " << endl;
    }

    return 0;
}

Select D:\FOP LAB\LAB 07 TASKS\ASSIGNMENT 01 OR LAB 07 HW\array 1.exe
Array after sorting:
29
36
55
68
104
-----
Process exited after 0.08756 seconds with return value 0
Press any key to continue . . .
```