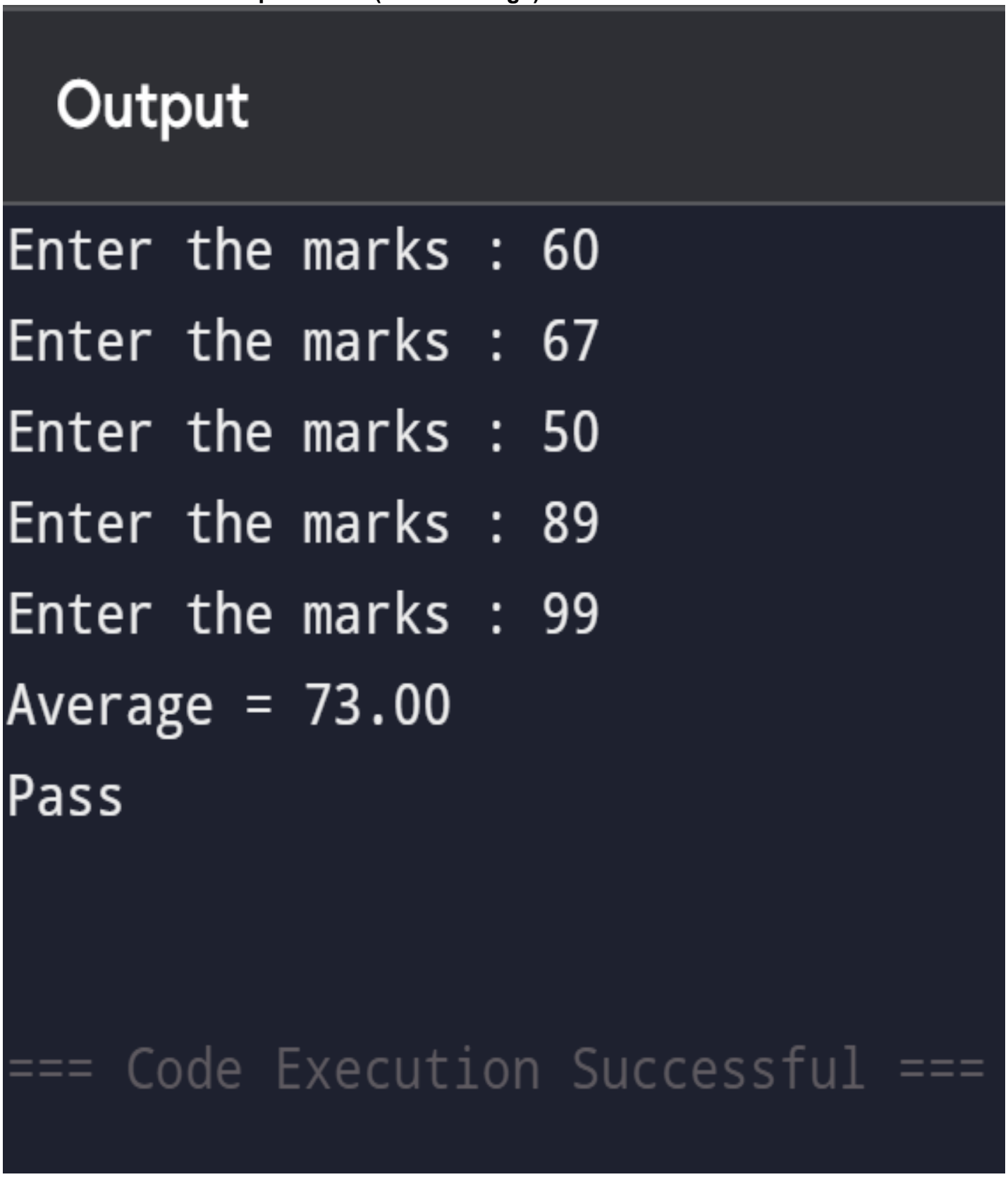
## Experiment: Observations and Results

**experiment-1(marksaverage).c**



experiment-2(arrayoperations).c

```
PS D:\codes> cd "d:\codes\" ; if ($?) { gcc arrayop.c -o arra
Enter 6 elements in the array:
1 2 3 4 5 6

Current Array: 1 2 3 4 5 6

MENU:
1. Insertion
2. Deletion
3. Linear Search
4. Binary Search
Enter Choice: 2

Enter the location to delete (0 to 5): 3
Array after deletion:
1 2 3 5 6
PS D:\codes>
```

experiment-3(linkedlist).c

Output

```
Enter 5 values for the list:
1
2
3
4
5
Current list: 1 -> 2 -> 3 -> 4 -> 5 -> NULL
Enter a value to insert at the beginning: 4
4 -> 1 -> 2 -> 3 -> 4 -> 5 -> NULL
Enter a value to delete: 6
Value not found in the list.
4 -> 1 -> 2 -> 3 -> 4 -> 5 -> NULL


=== Code Execution Successful ===
```

experiment-4(stackoperations).c

Output Clear

```
Stack Operations:
1. Push
2. Pop
3. Peek
4. Display
5. Exit
Enter your choice: 1
Enter value to push: 5
5 pushed to stack.

Stack Operations:
1. Push
2. Pop
3. Peek
4. Display
5. Exit
Enter your choice: 2
5 popped from stack.

Stack Operations:
1. Push
2. Pop
3. Peek
4. Display
5. Exit
```

experiment-5(insertionsort).c

Output

```
Enter the number of elements: 3
Enter 3 elements:
6
2
7
Sorted array: 2 6 7

=== Code Execution Successful ===
```

experiment-6(bfs).c

Output

```
BFS starting from node 0: 0 1 2 3 4 5

=== Code Execution Successful ===
```