

worksheet 1 (AVERAGE MARKS CALCULATION)

```
Enter student's name: A
Enter number of subjects: 6
Enter marks for subject 1: 55
Enter marks for subject 2: 78
Enter marks for subject 3: 80
Enter marks for subject 4: 33
Enter marks for subject 5: 15
Enter marks for subject 6: 94
```

```
Student: A
Average Marks: 59.17
Performance: Average
```

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

Worksheet2 (INSERTION & DELETION SORT)

```
Enter 5 elements:
Enter element 1: 10
Enter element 2: 5
Enter element 3: 30
Enter element 4: 25
Enter element 5: 15
Current array elements:
10 5 30 25 15

--- MENU ---
1. Insertion
2. Deletion
3. Linear Search
4. Binary Search
5. Exit
Enter your choice: 4
Enter the element to search: 25
Array sorted for binary search:
Current array elements:
5 10 15 25 30
Element found at index 3
```

Worksheet3 (LINKLIST)

```
Enter 5 values for the list:
3
4
7
10
23
Current list: 3 -> 4 -> 7 -> 10 -> 23 -> NULL
Enter a value to insert at the beginning: 10
10 -> 3 -> 4 -> 7 -> 10 -> 23 -> NULL
Enter a value to delete: 23
10 -> 3 -> 4 -> 7 -> 10 -> NULL

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

Worksheet4 (STACK OPERATION)

```
Stack operations menu:  
1. Push  
2. Pop  
3. Peek  
Enter your choice: 1  
Enter value to push: 10  
10 pushed into stack
```

```
Stack operations menu:  
1. Push  
2. Pop  
3. Peek  
Enter your choice: 1  
Enter value to push: 12  
12 pushed into stack
```

```
Stack operations menu:  
1. Push  
2. Pop  
3. Peek  
Enter your choice: 2  
12 popped from stack
```

Worksheet5 (INSERTION SORT)

```
Enter the number of elements: 4
```

```
Enter 4 elements:
```

```
12
```

```
14
```

```
3
```

```
5
```

```
Sorted array: 3 5 12 14
```

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

Worksheet6 (DFS)

Output

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

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