DAA PRACTICAL 2021

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Output 1:-

```
anirvan@anirvan-HP-Laptop-15-bs0xx:~/projects/DAA-Practical-2021$  cd "/home/anirvan/projects/DAA-Practical-2021/" && g++ que1.cpp -o que1 && "/home/a
nirvan/projects/DAA-Practical-2021/"que1
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Exit.
1

Enter the number to be inserted in tree.
7
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Exit.
1

Enter the number to be inserted in tree.
9
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Exit.
3

Enter number to be searched.
9

9 color :red
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Exit.
2

Enter number to be deleted.
9
Enter your choice.
1.Insertion.
2.Deletion.
```

```
Enter number to be deleted.
9
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Exit.
3

Enter number to be searched.
9

Number is not present.Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Exit.
4
anirvan@anirvan-HP-Laptop-15-bs0xx:~/projects/DAA-Practical-2021$
```

Output-2

```
anirvan@anirvan-HP-Laptop-15-bs0xx:~/projects/DAA-Practical-2021$  cd "/home/anirvan/projects/DAA-Practical-2021/" && g++ que2.cpp -o que2 && "/home/a
nirvan/projects/DAA-Practical-2021/"que2
Edge    Weight
0 - 1   6
1 - 2   3
0 - 3   6
1 - 4   9
anirvan@anirvan-HP-Laptop-15-bs0xx:~/projects/DAA-Practical-2021$
```

Output -3

```
anirvan@anirvan-HP-Laptop-15-bs0xx:~/projects/DAA-Practical-2021$  cd "/home/anirvan/projects/DAA-Practical-2021/" && g++ que3.cpp -o que3 && "/home/a
nirvan/projects/DAA-Practical-2021/"que3
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
1
                A: [5, 3, 6, 10, 16, 8, 2, 4, 11, 1]
After Bubble Sort
 Sorted A: [1, 2, 3, 4, 5, 6, 8, 10, 11, 16]
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
2
                A: [2, 1, 8, 9, 6, 7, 12, 3, 10, 21]
After insertion Sort
Sorted B: [1, 2, 3, 6, 7, 8, 9, 10, 12, 21]
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
3
                A: [9, 7, 3, 10, 8, 2, 6, 5, 13, 4]
After Selection Sort
 Sorted C: [2, 3, 4, 5, 6, 7, 8, 9, 10, 13]
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
4
```

```
4
                A: [5, 4, 6, 7, 9, 8, 17, 14, 1, 2]
After Quick Sort
 Sorted D: [1, 4, 5, 6, 7, 8, 9, 14, 17]

Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
5
                A: [7, 2, 8, 1, 4, 5, 3, 4, 15, 11]
After Merge Sort
 Sorted E: [1, 2, 3, 4, 4, 5, 7, 8, 11, 15]
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
6
anirvan@anirvan-HP-Laptop-15-bs0xx:~/projects/DAA-Practical-2021$
```