

# Ramanujan College

University of Delhi

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College Roll No. - 2019/1455

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4th Semester

B.Sc. (Hons.) Computer Science

DAA Practical Examination

## Output 1:

Enter number to be searched.

```
Enter your choice.

1.Insertion.

2.Deletion.

3.Search a number.

4.Display its preorder and inorder transversals.

5.Exit.

Enter the number to be inserted in tree.

4

Enter number to be deleted.

4

Press any key to continue . . . . .
```

4 color : blackPress any key to continue  $\dots$ 

## Output 2:

```
Enter the no. of vertices in the graph: 4
Enter the weights of the following:
edge 1 , 2 :10
edge 1 , 3 :40
edge 1 , 4 :20
edge 2 , 3 :60
edge 2 , 4 :30
edge 3 , 4 :70
The edges in the given graph are::
< 1 , 3 > 40
< 1 , 4 > 20
< 2 , 3 > 60 < 2 , 4 > 30
< 3 , 4 > 70
After sorting the edges in the given graph are::
1 , 2 > ::10
1 , 4 > ::20
2 , 4 > ::30
1 , 3 > ::40
2 , 3 > ::60
3 , 4 > ::70
******** THE MINIMUM SPANNING TREE IS***********The edge included in MST is :: < 1 , 2 >
The edge included in MST is :: < 1 , 4 >
Edge < 2 , 4 > is not included as it forms a cycle
The edge included in MST is :: < 1 , 3 >
Edge < 2 , 3 > is not included as it forms a cycle
Edge < 3 , 4 > is not included as it forms a cycle
Process exited after 10.67 seconds with return value 0
Press any key to continue \dots
```

# Output 3:

### 3A - Bubble Sort

```
Enter the no of elements in array: 4
******MENU*****
1.Worst Case
2.Best Case
3.Average Case
Enter your choice: 1
Enter the elements of array
BUBBLE SORTING
Array after 1 pass:
Array after 2 pass:
Array after 3 pass:
Comparisons=6
Want to do more(Y/N)?
```

#### 3B - Selection Sort

### 3C - Insertion Sort

```
Enter the no of elements in array: 5
*****MENU*****
1.Worst Case
2.Best Case
3.Average Case
Enter your choice:1
Enter the elements of array
INSERTION SORTING
Array after 1 pass:
Array after 2 pass:
Array after 3 pass:
Array after 4 pass:
no of comparisons=10
Want to do more(Y/N)?
```

#### 3D - Merge Sort

#### 3E - Quick Sort