


Data Analysis And Algorithm Practical

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Question 1:

 C:\Users\tannu yadav\OneDrive\Documents\daa1.exe

Enter your choice.


1.Insertion.

2.Deletion.

3.Search a number.

4.Display its preorder and inorder transversals.


5.Exit.

 C:\Users\tannu yadav\OneDrive\Documents\daa1.exe

Enter number to be searched.


25

25color :blackPress any key to continue . . .

 C:\Users\tannu yadav\OneDrive\Documents\daa1.exe

Enter the number to be inserted in tree.

25

 C:\Users\tannu yadav\OneDrive\Documents\daa1.exe

Preorder:

Element: 25 Color: Black

Inorder:

Element: 25 Color: BlackPress any key to continue . . .

Question 2:

Kruskal's Algorithm

Enter the no. of vertices in the graph:6

THE MINIMUM SPANNING TREE ISThe edge included in MST is :: < 1 , 2 >

The edge included in MST is :: < 2 , 3 >

The edge included in MST is :: < 3 , 5 >

Edge < 1 , 3 > is not included as it forms a cycle

The edge included in MST is :: < 2 , 4 >

The edge included in MST is :: < 3 , 6 >

Edge < 1 , 4 > is not included as it forms a cycle

Edge < 2 , 5 > is not included as it forms a cycle

Edge < 4 , 5 > is not included as it forms a cycle

Edge < 1 , 5 > is not included as it forms a cycle

Edge < 2 , 6 > is not included as it forms a cycle

Edge < 4 , 6 > is not included as it forms a cycle

Edge < 1 , 6 > is not included as it forms a cycle

Edge < 3 , 4 > is not included as it forms a cycle

Edge < 5 , 6 > is not included as it forms a cycle

Question 3 :

```
Enter the size of array:
```

```
5
```

```
Enter the size of array:
```

```
5
```

```
Enter elements in an array:
```

```
5
```

```
6
```

```
25
```

```
3
```

```
4
```

Enter the size of array:

5

Enter elements in an array:

5

6

25

3

4

Elements are:

5 6 25 3 4

-----Enter choice-----

1. Bubble Sort
2. Selection Sort
3. Insertion sort
4. Merge Sort
5. Quick sort
6. Exit

■

Enter elements in an array:

5
6
25
3
4

Elements are:

5 6 25 3 4

-----Enter choice-----

1. Bubble Sort
2. Selection Sort
3. Insertion sort
4. Merge Sort
5. Quick sort
6. Exit

5

sorted array is:

3 4 5 6 25

Total number of comparisons are: 5

Process exited after 90.11 seconds with return value 0

Press any key to continue . . . ■

