DAA PRACTICAL EXAMINATION

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Course: BSc (hons.) Computer Science

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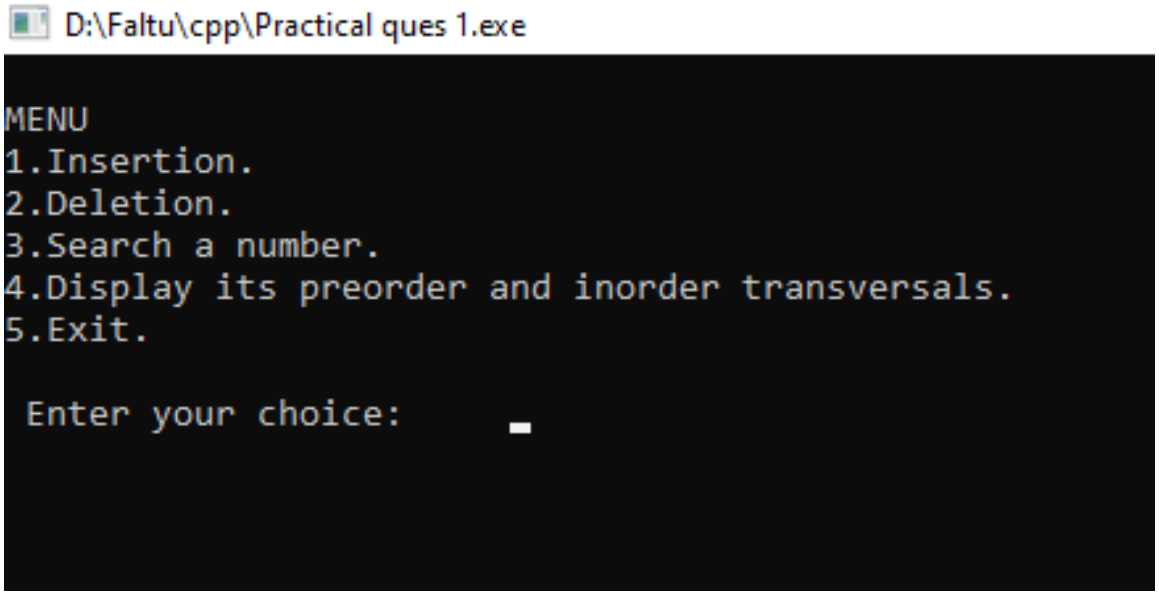
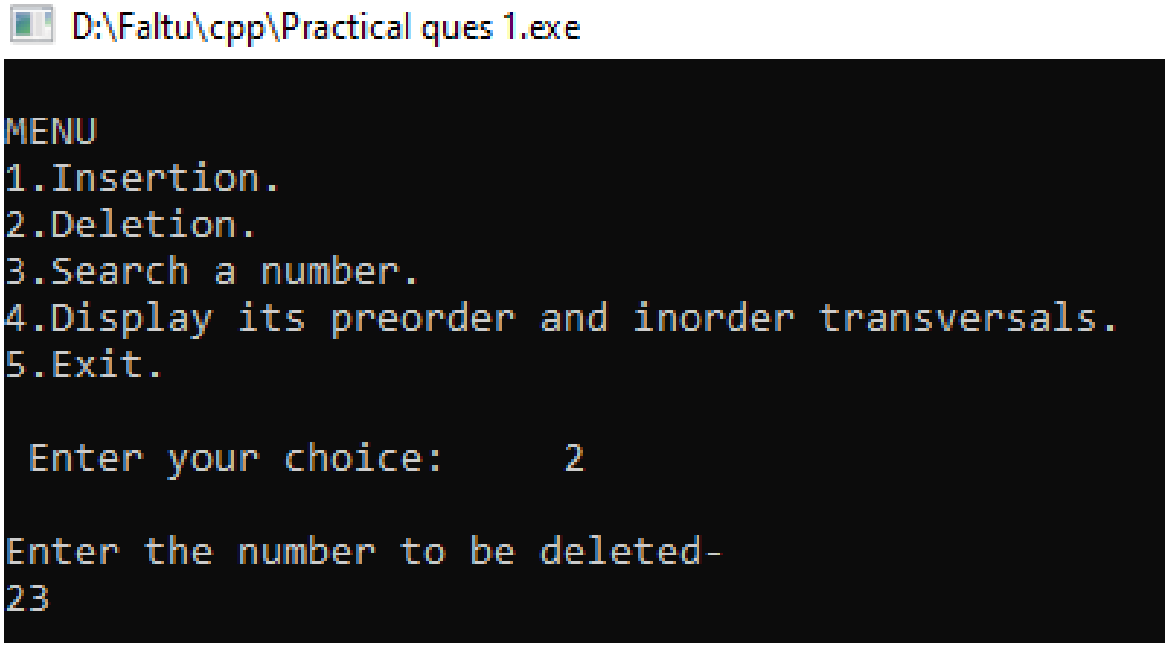
Ques 1-


D:\Faltu\cpp\Practical ques 1.exe
MENU
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
Enter your choice:


D:\Faltu\cpp\Practical ques 1.exe
MENU
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
Enter your choice: 2
Enter the number to be deleted-
23

D:\Faltu\cpp\Practical ques 1.exe

```
MENU
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.

 Enter your choice:     3

Enter the number to be searched-
32

32colour :  red
```

D:\Faltu\cpp\Practical ques 1.exe

```
32colour :  red
MENU
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.

 Enter your choice:     4

Preorder:

Element: 2        Colour:  Red
Element: 32       Colour:  Red
Inorder:

Element: 2        Colour:  Red
Element: 32       Colour:  Red
```

Ques 2-

D:\Faltu\cpp\Practical ques 2.exe

```
         KRUSKAL'S ALGORITHM

Enter the no. of vertices in the graph: 3

Enter the weights of the following edges
edge 1 , 2 :4
edge 1 , 3 :5
edge 2 , 3 :8


The edges in the given graph are::
 < 1 , 2 > 4
 < 1 , 3 > 5
 < 2 , 3 > 8


After sorting the edges in the given graph are::
1 , 2 > ::4
1 , 3 > ::5
2 , 3 > ::8

         THE MINIMUM SPANNING TREE IS:
The edge included in MST is :: < 1 , 2 >
The edge included in MST is :: < 1 , 3 >
Edge  < 2 , 3 > is not included as it forms a cycle
```

Ques 3-

D:\Faltu\cpp\Practical ques3.exe

```
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, 13, 21, 8, 2, 4, 11, 31]
After Bubble Sort
 Sorted A: [2, 3, 4, 5, 6, 8, 11, 13, 21, 31]
Enter your choice
```

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
2
               A: [26, 41, 28, 9, 6, 73, 12, 3, 10, 21]
After insertion Sort
Sorted B: [3, 6, 9, 10, 12, 21, 26, 28, 41, 73]
```

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
3
                A: [94, 72, 3, 10, 82, 22, 6, 5, 13, 4]
After Selection Sort
 Sorted C: [3, 4, 5, 6, 10, 13, 22, 72, 82, 94]
```

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
4
                A: [5, 4, 6, 71, 9, 81, 17, 14, 13, 32]
After Quick Sort
 Sorted D: [4, 5, 6, 9, 13, 14, 17, 71, 81]
```

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
5
               A: [27, 52, 83, 12, 4, 35, 23, 44, 15, 11]
After Merge Sort
 Sorted E: [4, 11, 12, 15, 23, 27, 35, 44, 52, 83]
```