DAA PRACTICAL EXAMINATION

Name: PAVITRA KAPOOR

University Roll No. : 19020570026

College Roll No. : 2019/1428

Course: BSc (hons.) Computer Science

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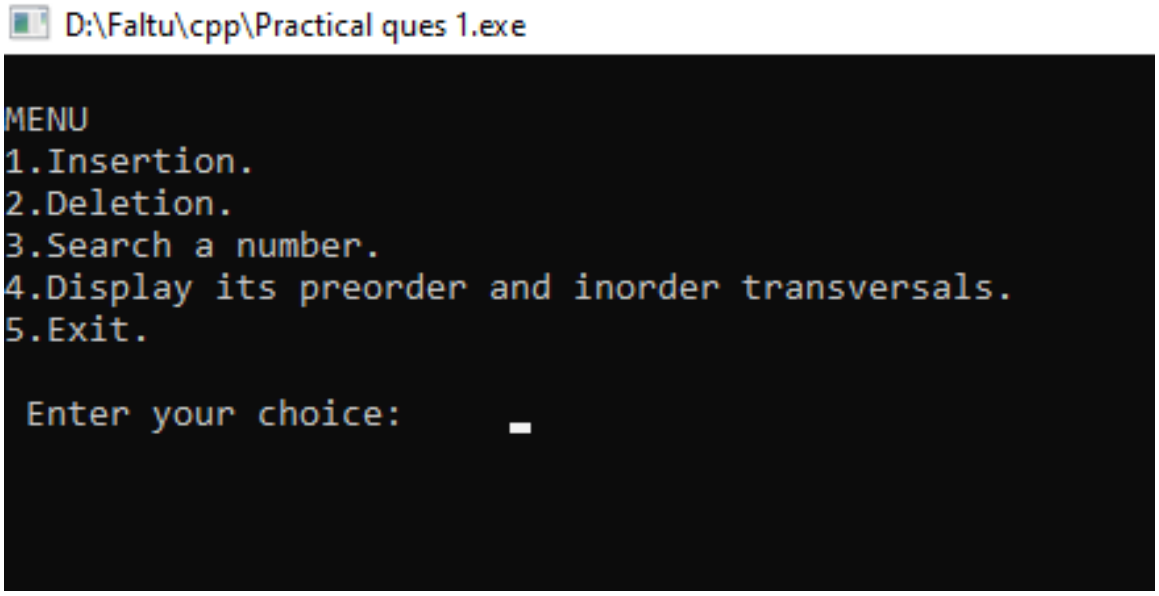
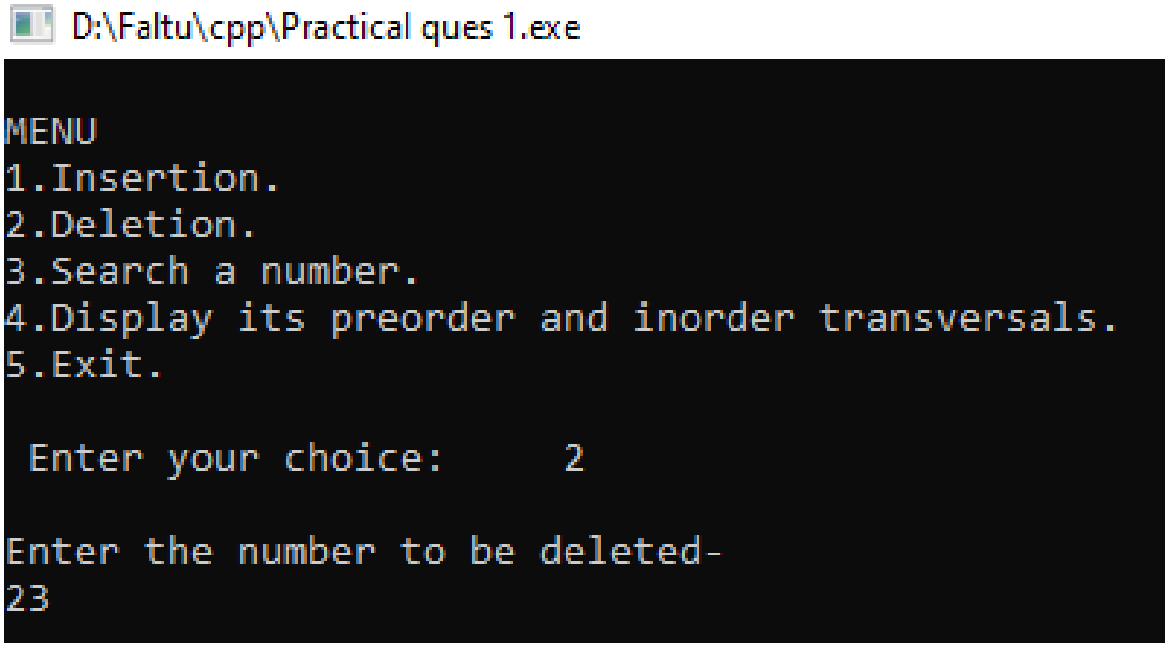
Ques 1-


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 ques 3.exe

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
1
                A: [3, 7, 9, 10, 6, 5, 12, 4, 11, 2]
After Bubble Sort
 Sorted A: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
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: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
After insertion Sort
Sorted A: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
```

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
3
              A: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
After Selection Sort
 Sorted A: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
```

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
4
               A: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
After Quick Sort
 Sorted A: [2, 3, 4, 5, 6, 7, 9, 10, 11]
```

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
5
               A: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
After Merge Sort
 Sorted A: [2, 3, 4, 5, 6, 7, 9, 10, 11, 12]
Enter your choice.
```