

DAA

Practical Exam

2021

BSc. Computer Science

Semester – 4

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Roll no - 2019/1405

Exam Roll No. - 19020570005

QUESTION -01

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-01.exe
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
```

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-01.exe
Enter the number to be inserted in tree.
25_
```

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-01.exe
Preorder:
Element: 25      Color: Black
Inorder:
Element: 25      Color: BlackPress any key to continue . . .
```

After inserting several elements:

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-01.exe

Preorder:

Element: 25      Color: Black
Element: 5       Color: Black
Element: 26      Color: Black
Element: 56      Color: Red
Inorder:

Element: 5       Color: Black
Element: 25      Color: Black
Element: 26      Color: Black
Element: 56      Color: RedPress any key to continue . . .
```

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-01.exe

Enter number to be deleted.
5
```

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-01.exe

Preorder:

Element: 26      Color: Black
Element: 25      Color: Black
Element: 56      Color: Black
Inorder:

Element: 25      Color: Black
Element: 26      Color: Black
Element: 56      Color: BlackPress any key to continue . . .
```

C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-01.exe

Enter number tou want to serach.

56

56color : black

Press any key to continue . . .

QUESTION -02

C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-2.exe

*****KRUSKAL'S ALGORITHM*****

Enter the no. of vertices in the graph:6

Enter the weights of the following:

edge 1 , 2 :

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Question-2.exe

***** THE MINIMUM SPANNING TREE IS*****The edge included in MST is :: < 1 , 4 >
The edge included in MST is :: < 2 , 3 >
The edge included in MST is :: < 1 , 2 >
The edge included in MST is :: < 2 , 5 >
The edge included in MST is :: < 4 , 6 >
Edge < 1 , 3 > is not included as it forms a cycle

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

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

Edge < 2 , 4 > is not included as it forms a cycle

Edge < 3 , 6 > is not included as it forms a cycle

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

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

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

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

Edge < 3 , 5 > is not included as it forms a cycle

-----
Process exited after 20.69 seconds with return value 0
Press any key to continue . . .
```

QUESTION -03

```
C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Q3.exe

Enter the size of array:
5
```

C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Q3.exe

Enter the size of array:

5

Enter elements in an array:

5

6

25

3

4

C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Q3.exe

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

■

C:\Users\Anjali Yadav\OneDrive\Desktop\Practical\Q3.exe

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 . . . ■