MUEHB Fazli (1457)

OUTPUT FILES

ANSWER-01

```
input

sh: 1: cls: not found
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
1
sh: 1: cls: not found

Enter the number to be inserted in tree.
5
sh: 1: cls: not found
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
1
sh: 1: cls: not found

Enter the number to be inserted in tree.
6
sh: 1: cls: not found
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
```

```
Preorder:

Element: 5        Color: Black
Element: 6        Color: Red
Inorder:

Element: 5        Color: Black
sh: 1: pause: not found
sh: 1: cls: not found
Element: 6        Color: RedEnter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
3
sh: 1: cls: not found

Enter number to be searched.
5

sh: 1: pause: not found
sh: 1: cls: not found
5color :blackEnter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
```

ANSWER-02

```
The edges in the given graph are::
 < 1 , 2 > 2
 < 1 , 3 > 3
 < 1 , 4 > 11
 < 2 , 3 > 5
 < 2 , 4 > 4
 < 3 , 4 > 2


After sorting the edges in the given graph are::
1 , 2 > ::2
3 , 4 > ::2
1 , 3 > ::3
2 , 4 > ::4
2 , 3 > ::5
1 , 4 > ::11

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

Edge  < 2 , 3 > is not included as it forms a cycle

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

ANSWER-03

```
Enter the size of array:
5

Enter elements in an array:
5
3
5
1
6

Elements are:
5 3 5 1 6
------Enter choice--------


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

sorted array is:
 1 3 5 5 6
Total number of comparisons are: 4

...Program finished with exit code 0
Press ENTER to exit console.
```