

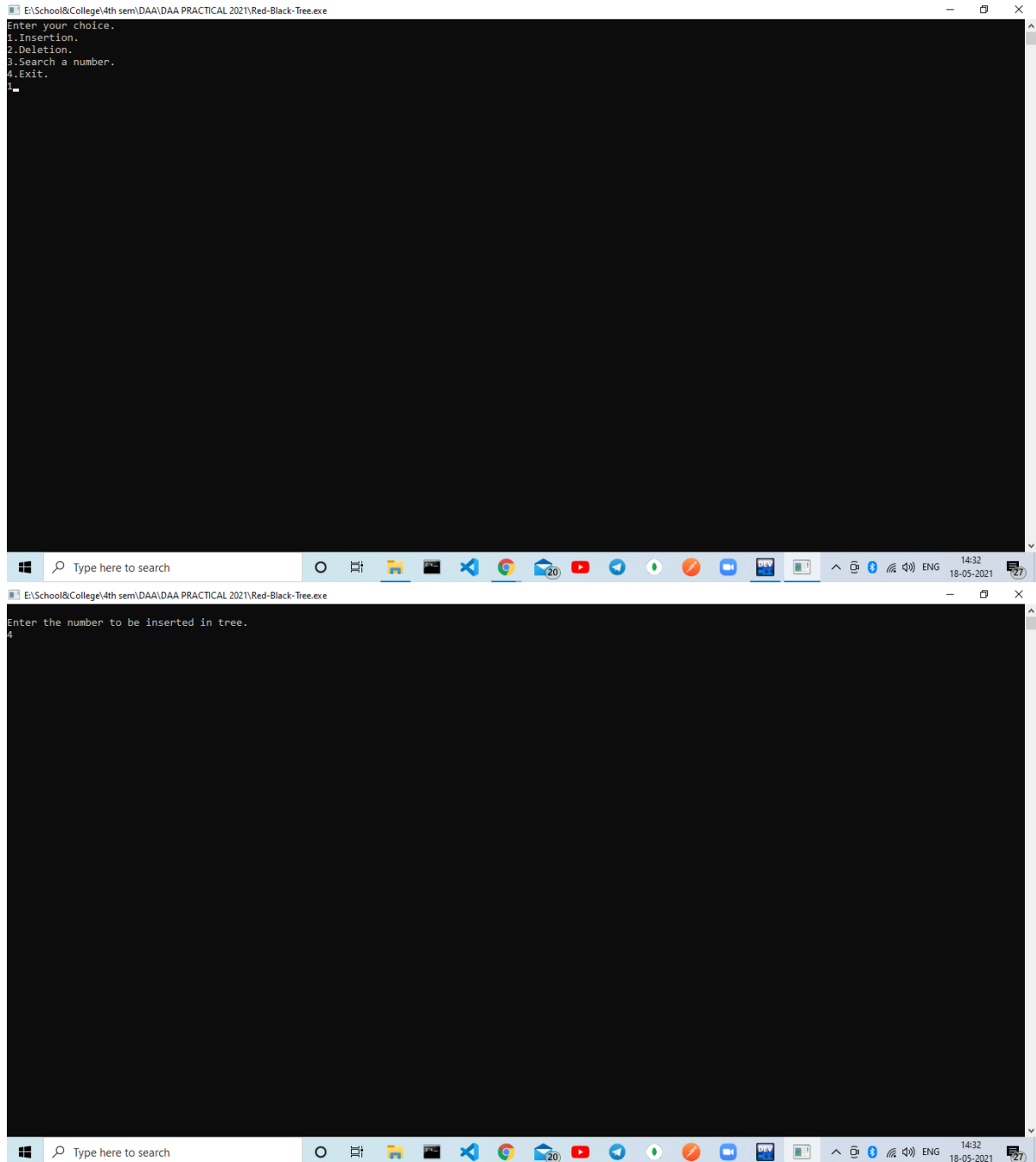
DAA Practical Outputs

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Ques 1 Outputs:



The image displays two screenshots of a Windows command prompt window. The window title is "E:\School&College\4th sem\DAA\DAA PRACTICAL 2021\Red-Black-Tree.exe".

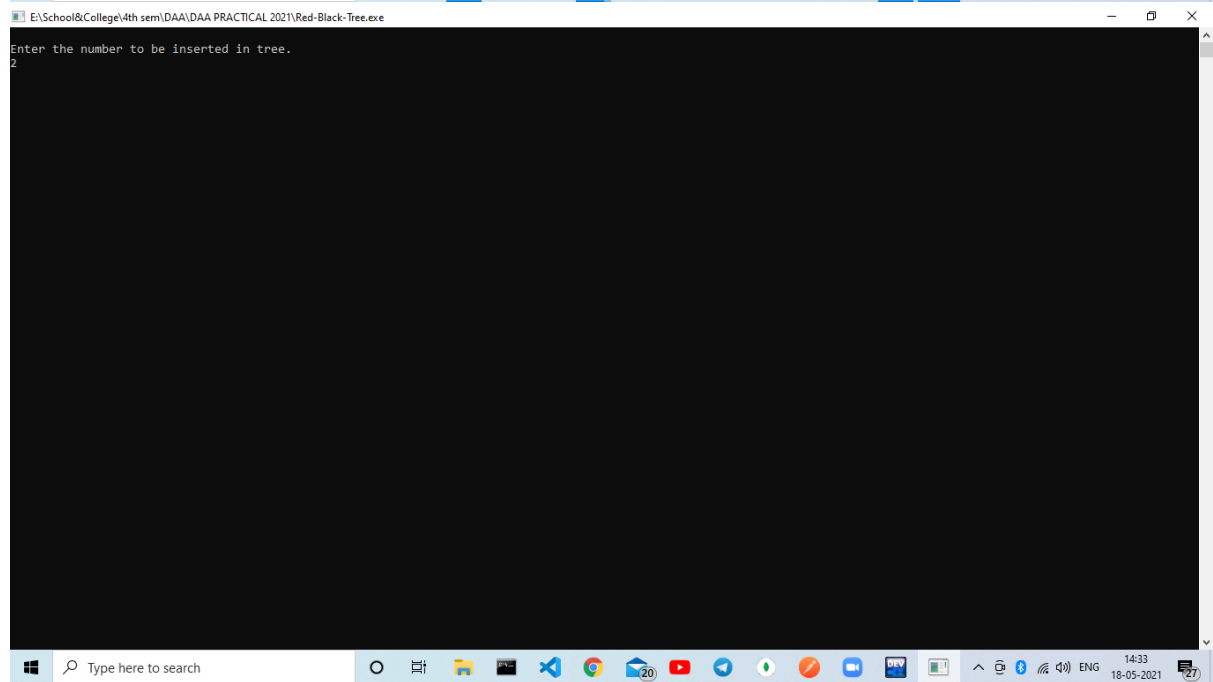
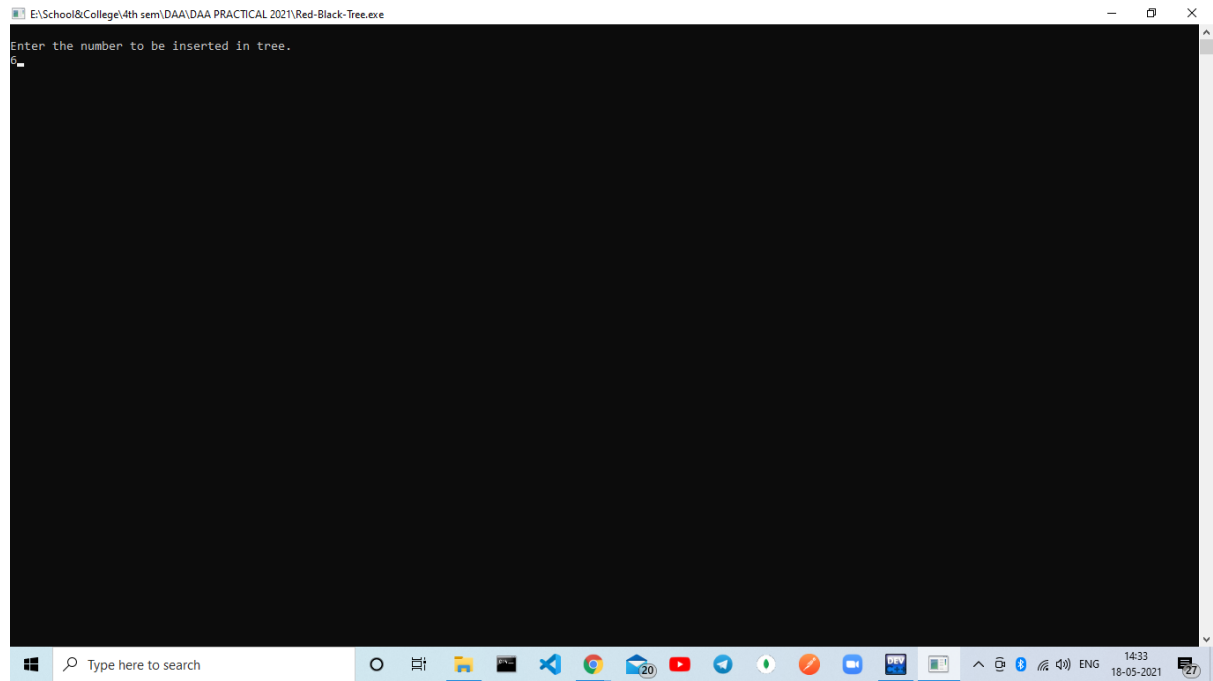
The first screenshot shows the program's main menu with the following text:

```
Enter your choice.  
1.Insertion.  
2.Deletion.  
3.Search a number.  
4.Exit.  
1
```

The second screenshot shows the program after selecting option 1 (Insertion). It prompts the user to enter a number to be inserted into the tree:

```
Enter the number to be inserted in tree.  
4
```

Both screenshots show the Windows taskbar at the bottom with various application icons and system tray icons.



```
E:\School&College\4th sem\DA\DA PRACTICAL 2021\Red-Black-Tree.exe
Enter number to be searched.
5
Number is not present.Press any key to continue . . . _
```

```
E:\School&College\4th sem\DA\DA PRACTICAL 2021\Red-Black-Tree.exe
Enter number to be searched.
4
4color :blackPress any key to continue . . . _
```

```
E:\School&College\4th sem\DAA\DAA PRACTICAL 2021\Red-Black-Tree.exe
Enter number to be deleted.
4
Press any key to continue . . . .
```

Ques 2 Output:

```
E:\School&College\4th sem\DAA\DAA PRACTICAL 2021\Minimum-Spanning-Tree.exe
Edge    Weight
0 - 1    2
1 - 2    3
0 - 3    6
1 - 4    5

-----
Process exited after 0.3197 seconds with return value 0
Press any key to continue . . . .
```

Ques 3 output:

```
E:\School&College\4th sem\DA\DA PRACTICAL 2021\Sorting.exe
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
1

```

```
E:\School&College\4th sem\DA\DA PRACTICAL 2021\Sorting.exe
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]
Press any key to continue . . .

```

```
E:\School&College\4th sem\DAAPRACTICAL 2021\Sorting.exe
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]
Press any key to continue . . .
```

```
E:\School&College\4th sem\DAAPRACTICAL 2021\Sorting.exe
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]
Press any key to continue . . .
```

```
E:\School&College\4th sem\DAAPRACTICAL 2021\Sorting.exe
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]
Press any key to continue . . .
```

```
E:\School&College\4th sem\DAAPRACTICAL 2021\Sorting.exe
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]
Press any key to continue . . .
```