

DAA PRACTICAL

2021

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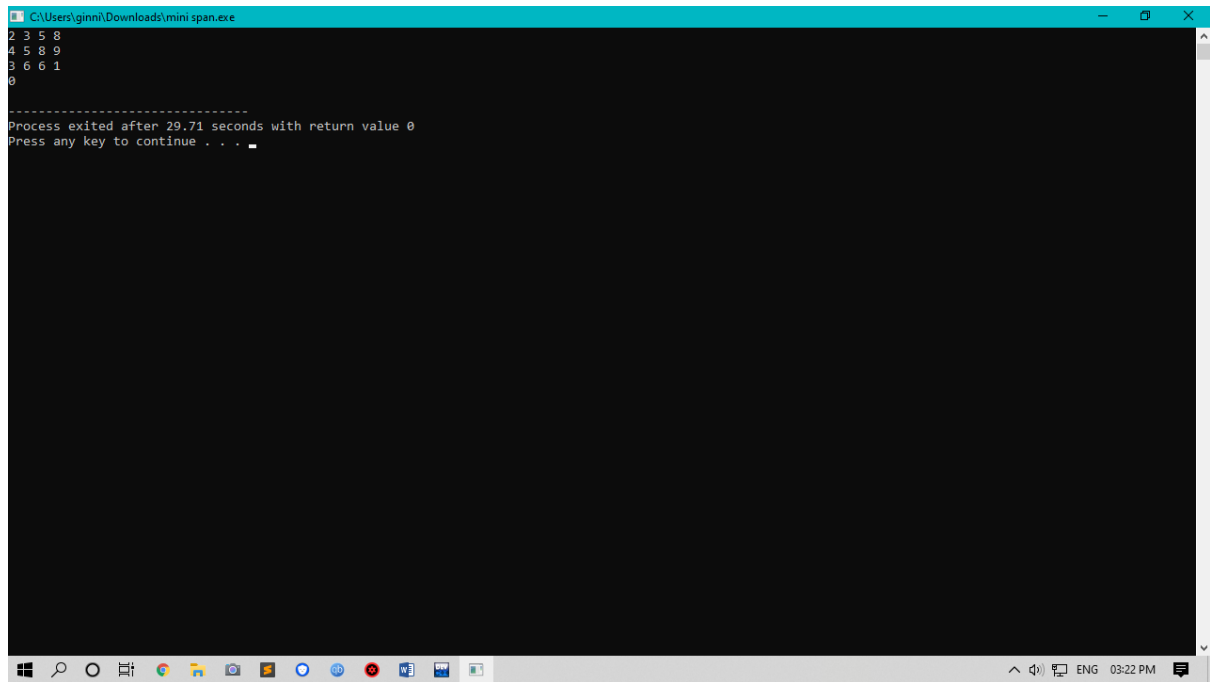
OUTPUT PROGRAM 1:

```
C:\Users\ginni\Downloads\Red&Black-tree.exe
Enter your choice.
1.Insertion.
2.Deletion.
3.Search a number.
4.Display its preorder and inorder transversals.
5.Exit.
1_
```

```
C:\Users\ginni\Downloads\Red&Black-tree.exe
Enter the number to be inserted in tree.
2 6 7 8 4 5 3 _
```

```
C:\Users\ginni\Downloads\Red&Black-tree.exe
Preorder:
Element: 2      Color: Black
Inorder:
Element: 2      Color: BlackPress any key to continue . . .
```

OUTPUT PROGRAM 2:



A screenshot of a Windows command prompt window. The title bar at the top reads "C:\Users\ginni\Downloads\mini span.exe". The command prompt shows the following output:

```
2 3 5 8  
4 5 8 9  
5 6 6 1  
0  
-----  
Process exited after 29.71 seconds with return value 0  
Press any key to continue . . .
```

The window has a standard Windows taskbar at the bottom with various application icons and a system tray on the right showing the language as "ENG" and the time as "03:22 PM".

OUTPUT PROGRAM 3:

```
E:\harsh\daa\Insertion Sort.exe
Enter the size of array:
3
Insert array elements: 2
5
6
Elements are: 2 5 6
Sorted array is: 2 5 6
No of Comparisons : 0
-----
Process exited after 14.87 seconds with return value 0
Press any key to continue . . .
```

```
E:\harsh\daa\Merge Sort1b.exe
Enter the size of array:
3
Insert array elements:
5
8
9
Array Elements are:
5 8 9
Sorted array is:
5 8 9
Total number of comparisons are: 3
-----
Process exited after 10.97 seconds with return value 0
Press any key to continue . . .
```

```
E:\harsh\daa\Quick Sort3.exe
Enter the size of array:
3
Insert array elements:
6
8
2
Array elements are:
6 8 2
Sorted array is:
2 6 8
Total number of comparisons are: 2
Process exited after 6.478 seconds with return value 0
Press any key to continue . . .
```