DAA Practical Exam Output screen

Q 1:

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

```
Enter the number to be inserted in tree.
5
```

```
Enter number to be searched.
5

5color :redPress any key to continue . . .
```

Q 2 :

```
***************KRUSKAL'S ALGORITHM****************
Enter the no. of vertices in the graph:5

Enter the weights of the following:
edge 1 , 2 :2
edge 1 , 3 :3
edge 1 , 4 :4
edge 1 , 5 :6
edge 2 , 3 :1
edge 2 , 4 :7
edge 2 , 5 :8
edge 3 , 4 :9
edge 3 , 5 :4
edge 4 , 5 :5


The edges in the given graph are::
 < 1 , 2 > 2
 < 1 , 3 > 3
 < 1 , 4 > 4
 < 1 , 5 > 6
 < 2 , 3 > 1
 < 2 , 4 > 7
 < 2 , 5 > 8
 < 3 , 4 > 9
 < 3 , 5 > 4
 < 4 , 5 > 5


After sorting the edges in the given graph are::
2 , 3 > ::1
1 , 2 > ::2
1 , 3 > ::3
1 , 4 > ::4
3 , 5 > ::4
4 , 5 > ::5
1 , 5 > ::6
2 , 4 > ::7
2 , 5 > ::8
3 , 4 > ::9
```

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

The edge included in MST is :: < 1 , 4 >
The edge included in MST is :: < 3 , 5 >
Edge  < 4 , 5 > is not included as it forms a cycle

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

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

Edge  < 2 , 5 > is not included as it forms a cycle

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


--------------------------------
Process exited after 28.86 seconds with return value 0
Press any key to continue . . .
```

Q 3 :

```
Enter your choice.
1.Bubble Sort.
2.Insertion Sort.
3.Selection Sort.
4.Quick Sort.
5.Merge Sort
6.Exit.
1_
```

```
                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 . . . _
```

```
                     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 . . .
```

```
                     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 . . . ▄
```

```
                     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 . . . ▄
```