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**BSC (H.) Computer Science** 

**DAA Practical Examination** 

# Output 1

## Output 2

```
Enter the no. of vertices in the graph: 4
Enter the weights of the following:
edge 1 , 2 :10
edge 1 , 3 :40
edge 1 , 4 :20
edge 2 , 3 :60
edge 2 , 4 :30
edge 3 , 4 :70
The edges in the given graph are::
< 1 , 3 > 40
< 1 , 4 > 20
< 2 , 3 > 60 < 2 , 4 > 30
< 3 , 4 > 70
After sorting the edges in the given graph are::
1 , 2 > ::10
1 , 4 > ::20
2 , 4 > ::30
1 , 3 > ::40
2 , 3 > ::60
3 , 4 > ::70
******* THE MINIMUM SPANNING TREE IS**********The edge included in MST is :: < 1 , 2 >
The edge included in MST is :: < 1 , 4 >
Edge < 2 , 4 > is not included as it forms a cycle
The edge included in MST is :: < 1 , 3 >
Edge < 2 , 3 > is not included as it forms a cycle
Edge < 3 , 4 > is not included as it forms a cycle
Process exited after 10.67 seconds with return value 0
Press any key to continue \dots
```

# Output 3

### 3-a

```
Enter the no of elements in array: 4
******MENU*****
1.Worst Case
2.Best Case
3.Average Case
Enter your choice: 1
Enter the elements of array
BUBBLE SORTING
Array after 1 pass:
Array after 2 pass:
Array after 3 pass:
Comparisons=6
Want to do more(Y/N)?
```

## 3-b

```
Enter the no of elements in array: 3

******MENU*****

1.Worst Case

2.Best Case

3.Average Case

Enter your choice: 1

Enter the elements of array

SELECTION SORTING

Array after 1 pass:
1
2
3

Array after 2 pass:
1
2
3

Comparisons=3
Want to do more(Y/N)? __
```

### 3-c

```
Enter the no of elements in array: 5
******MENU*****
1.Worst Case
2.Best Case
3.Average Case
Enter your choice:1
Enter the elements of array
INSERTION SORTING
Array after 1 pass:
Array after 2 pass:
Array after 3 pass:
Array after 4 pass:
no of comparisons=10
Want to do more(Y/N)?
```

#### 3-d

#### 3-е