**Job Scheduling**

**Output: -**

Enter the no of Job you want to enter: 5

Enter the details of the Job:

Job 1 :

Enter the id of Job: 1

Enter the deadline of Job: 2

Enter the profit of Job: 100

Job 2 :

Enter the id of Job: 2

Enter the deadline of Job: 1

Enter the profit of Job: 19

Job 3 :

Enter the id of Job: 3

Enter the deadline of Job: 2

Enter the profit of Job: 27

Job 4 :

Enter the id of Job: 4

Enter the deadline of Job: 1

Enter the profit of Job: 25

Job 5 :

Enter the id of Job: 5

Enter the deadline of Job: 3

Enter the profit of Job: 15

Scheduled Jobs: 3 1 5

Total Profit: 142

**KruskalMST & PrimMST**

**Output: -**

Enter the size of the graph: 5

Enter the weight 0-> 0 of the graph: 0

Enter the weight 0-> 1 of the graph: 2

Enter the weight 0-> 2 of the graph: 0

Enter the weight 0-> 3 of the graph: 6

Enter the weight 0-> 4 of the graph: 0

Enter the weight 1-> 0 of the graph: 2

Enter the weight 1-> 1 of the graph: 0

Enter the weight 1-> 2 of the graph: 3

Enter the weight 1-> 3 of the graph: 8

Enter the weight 1-> 4 of the graph: 5

Enter the weight 2-> 0 of the graph: 0

Enter the weight 2-> 1 of the graph: 3

Enter the weight 2-> 2 of the graph: 0

Enter the weight 2-> 3 of the graph: 0

Enter the weight 2-> 4 of the graph: 7

Enter the weight 3-> 0 of the graph: 6

Enter the weight 3-> 1 of the graph: 8

Enter the weight 3-> 2 of the graph: 0

Enter the weight 3-> 3 of the graph: 0

Enter the weight 3-> 4 of the graph: 9

Enter the weight 4-> 0 of the graph: 0

Enter the weight 4-> 1 of the graph: 5

Enter the weight 4-> 2 of the graph: 7

Enter the weight 4-> 3 of the graph: 9

Enter the weight 4-> 4 of the graph: 0

Edge Weight

0 - 1 2

1 - 2 3

0 - 3 6

1 - 4 5

Minimum weight of MST: 16

**DijkstraMST**

**Output: -**

Enter the size of the graph: 5

Enter the weight 0-> 0 of the graph: 0

Enter the weight 0-> 1 of the graph: 2

Enter the weight 0-> 2 of the graph: 0

Enter the weight 0-> 3 of the graph: 6

Enter the weight 0-> 4 of the graph: 0

Enter the weight 1-> 0 of the graph: 2

Enter the weight 1-> 1 of the graph: 0

Enter the weight 1-> 2 of the graph: 3

Enter the weight 1-> 3 of the graph: 8

Enter the weight 1-> 4 of the graph: 5

Enter the weight 2-> 0 of the graph: 0

Enter the weight 2-> 1 of the graph: 3

Enter the weight 2-> 2 of the graph: 0

Enter the weight 2-> 3 of the graph: 0

Enter the weight 2-> 4 of the graph: 7

Enter the weight 3-> 0 of the graph: 6

Enter the weight 3-> 1 of the graph: 8

Enter the weight 3-> 2 of the graph: 0

Enter the weight 3-> 3 of the graph: 0

Enter the weight 3-> 4 of the graph: 9

Enter the weight 4-> 0 of the graph: 0

Enter the weight 4-> 1 of the graph: 5

Enter the weight 4-> 2 of the graph: 7

Enter the weight 4-> 3 of the graph: 9

Enter the weight 4-> 4 of the graph: 0

Enter the starting vertex of the graph: 1

Vertex Distance from Source

0 2

1 0

2 3

3 8

4 5

**SelectionSort**

**Output: -**

Enter the size of the input: 5

Enter the elements of the array

Enter the 1 element: 64

Enter the 2 element: 25

Enter the 3 element: 12

Enter the 4 element: 23

Enter the 5 element: 16

Unsorted array:

64 25 12 23 16

Sorted array:

12 16 23 25 64