Enter the number of jobs Output Enter peofits for each jobs 3 78 well the me would was a little was the state of the same of Inter the deadline for each job: bput ling or liber y was some Assuringe in dere: SCALLENCE The people earned is 74

Oneput Enter the number of nodes Enter the cost material weights. 45 10 0 10 10 15 000 0000 50 0 0 0 30 0 0 0 0 0 15 0 0 10 35 0 0 0 20 0 120100 031 0111 mullion and 0 the source vertex: Enter 2 The shortest path from source 2 to all the other vertice are: Trad in some in the sovice : 2 descination: 1 min cost 1/25 Ademination: 3 mincost: 10 SOULL descination: 4 min Costi & 5 MANGE 1 2 devlination: 5 muncost 30 SOWICE 1, 2 min Cost : 9999 destination 1/6 Source : 2 COUNTY NOT BEEN

carlor, and was into religious? westile might

with the set are set much by

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bulput

Enter no of nodes in Greaph 4.

1 and 2:2

1 and 3:3

1 and 4:5

2 and 3:1

2 and 4:6

3 and 4 13

The min cost Edge 15 2 and 3 is with cost to
the min cost Edge 15 4 and 2 is with cost 2
The min cost Edge 15 4 and 1 in with cost 5
The total min cost spanning tree is 8

: Mary Mary 1999

```
Enter no. of verticer in the Guraph
     Enter Edge in the Goraph : 149 delle
    Ender 2 vertices and weights of Edge
         joint voder: 1
             Second verdex 12
        weight = 2
                   first vertex: 2
                              second voilex: 3
                          weight = 3
                       your vertex: 3
                 accord ventere "4"
                                        weight = 4 = 1 = set of set of
we print in order in the constraint of the print of the constraint of the constraint
                                  record vertex it
              weight = 1
       edge (4:1) with weight is gelected.
        edge (1,2) with weight/2 is selected
           edge (215) with weight 3 in selected
      edge (3.4) with whigh II is discarded
                                  min spanning tree for
                                                                                                    run Cost = 6
```

Output!

Enter no. of vertices in the Guraph Enler Edge in the Greaph

Enden 2 vertices and weights of Edge just vedere: 1

Second veder 12 Weight : 2

> first vertex: 2 second voilest: 3 weight = 3 11 [] The Miles and I was

fresh verken " 3] and a word and accord venture "4"

weight = 4 is send and = 1 per quint investen interes a justification of the record verten ! 1

weight = 1

edge (4:13 with weight is Selected. edge (1,2) with weight/2 is reledted edge (215) with weight 3 in relicited edge (3.4) with youigns It is disconded

min spanning tree for

run Cost = 6

```
Output
   -
  Enter
        the
Ender the items
   10
Ender the Maximum capacity 15
   The Maximum value that can be put
       in a knapsake of capacity is :54
```

```
Optimal Binary Search tace
     Enter who no of nodes cy
     Enter the data do . . . . . ,
     a[1] = 1
     a[1].2
     a [3]:3
     a [4]=4
     P [ 17 = 3
     P[2]=3
     P[3] =1
     PE 47:1
     aveoy =2
                     01 (27 51
     OV (37 = 1
                       EUDIN A CTIFIL
     a [4] = 1
The optimal Binary Search touch for the
            Guien noder /3.
     Root of Unis OBST/is 12
 The cost of this OBST is 3.2.
           LEFT CHIED RIGHT CHILD
```

out put

output

Enter the number of vertices

Enter the weighted Matrix of the Greaph

O 4 11

6 0 2

3 0 0

The teransitive closive of the Graph

1 2 3 1 0 4 4 2 5 0 2 3 3 7 0

.

6.5.6

property and was been forced that it is also as

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Output

Enter no of Oneens
4
Solution: 1
1 2 3 4
1 - 9 - 2 - - 9
3 0 - - -

solution: 2

1, 2 3 4

2 0 . . .

3 - - - Q.

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