```
enter the no. of vertices:      4

enter the cost matrix:
9999 2 9999 1
9999 3 9999 9999
   1 2 9999 1
9999 7    6 9999

all pair shortest path matrix is:
8       2       7       1

9999    3       9999    9999

1       2       7       1

7       7       6       7


...Program finished with exit code 0
Press ENTER to exit console.
```

```
enter the no. of items: 4

enter the weight of the each item:
1 2 3 4

enter the profit of each item:
10 30 40 50

enter the knapsack's capacity:  5

the output is:
0       0       0       0       0       0

0       10      10      10      10      10

0       10      30      40      40      40

0       10      30      40      50      70

0       10      30      40      50      70


the optimal solution is 70
the solution vector is:
0       1       1       0

...Program finished with exit code 0
Press ENTER to exit console.
```

```
enter the number of vertices
4
enter the adjacency matrix
1 1 0 0
1 0 1 0
0 0 1 0
0 1 0 1
trasitive closure
1       1       1       0
1       1       1       0
0       0       1       0
1       1       1       1


...Program finished with exit code 0
Press ENTER to exit console.
```