Assignments

Question-1

Given a directed graph having n nodes. For each node, delete all the outgoing edges except the outgoing edge with minimum weight. Apply this deletion operation for every node and then print the final graph remained where each node of the graph has at most one outgoing edge and that too with minimum weight.

Input : Adjacency Matrix of input graph :

```
  | 1  2  3  4
---------------
1 | 0  3  2  5
2 | 0  2  4  7
3 | 1  2  0  3
4 | 5  2  1  3
```

Output : Adjacency Matrix of output graph :

```
  | 1  2  3  4
---------------
1 | 0  0  2  0
2 | 0  2  0  0
3 | 1  0  0  0
4 | 0  0  1  0
```

Question-2

The number of vertices is given for a Cycle Graph. The task is to find the Degree and the number of Edges of the cycle graph.

Input:

Number of vertices = 4

Output:

Degree is 8

Edges are 4