KATHMANDU UNIVERSITY

Department of Computer Science and Engineering Dulikhel, Kavre



LAB EXERCISE 4
[Code No: COMP 208]

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OUTPUT

Output for directed graph

Output for undirected graph

```
Do you want your graph to be directed or not? (Enter 1 for yes and 0 for no):0
The graph is empty
The graph is not empty
The graph is undirected graph.
The adjacency matrix is:
The degree of 5 is 1
The entered vertices are not neighbours.
The entered vertices are neighbours.
The neighbours of given vertex are: 1 2
The number of edges are:5
The number of vertices are:6
The number of edges are:3
The number of vertices are:5
The adjacency matrix is:
Generating a random graph
Do you want your graph to be directed or not? (Enter 1 for yes and 0 for no):0
Enter the number of vertices in the graph
The adjacency matrix is:
```

This lab work was done collaboratively by both of us using Github as a version control. There were some merge conflicts while pulling from Git but they were solved properly.

There was an equal contribution of both of us in the execution and implementation of every function in the entire program. We first discussed about the logic of every function and implemented it.