

## Assignment-05

### Explanation

#### Task-1(a)

The code first checks if the graph contains a cycle, and if not, it performs a ~~topog~~ topological sort using DFS approach.

#### Task-1(b)

The code first checks if the graph contains a cycle, and if not, it performs a topological sort using BFS approach (Kahn's algorithm).

#### Task-2

The code first checks if the graph contains a cycle, and if not, it performs a topological sort using BFS approach (Kahn's algorithm) with a priority queue (heap).

#### Task-3

The code implements Kosaraju's algorithm to find strongly connected components (SCC) from the graph.