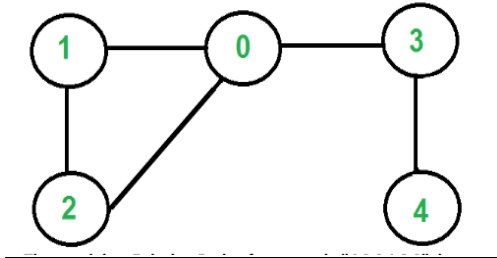


UCS415 – Design and Analysis of Algorithms

Lab Assignment 5

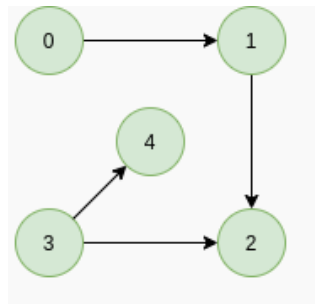
Write a program for the following:

- Find the Eulerian path and circuit for undirected graph



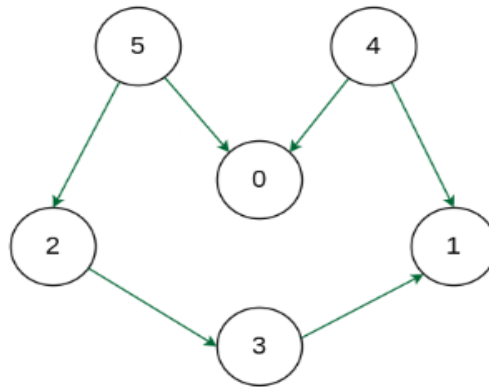
- Topological Sorting using Kahn's Algorithm.

Input: $V=6$, $E = \{\{2,3\}, \{3,1\}, \{4,0\}, \{4,1\}, \{5,0\}, \{5,2\}\}$



- Topological Sorting using DFS.

For a Directed Acyclic Graph, Solve below graph using Topological Sorting



Additional Questions:

<https://www.geeksforgeeks.org/fleury-s-algorithm-for-printing-eulerian-path/>

- <https://www.geeksforgeeks.org/hierholzers-algorithm-directed-graph/>
- <https://cp-algorithms.com/graph/topological-sort.html#toc-tgt-2>
- <https://www.geeksforgeeks.org/all-topological-sorts-of-a-directed-acyclic-graph/>