Lab Exercise 3 | Week 4

Implement Depth First Search (DFS) Algorithm using adjacency list.

- 1. Input: Graph as shown in the figure using adjacency list
- 2. Print the traversal of the search from given vertex \boldsymbol{u} .
 - 4 3 2 7 8 6 5 1 (Refer Figure 1), when **u** is 1.
- 3. Print the tree edges and back edges. (Refer Figure 1)
 - Tree edges: 1-2, 1-3, 3-4,1-5,5-6,6-7,6-8
 - Back edges: 4-2

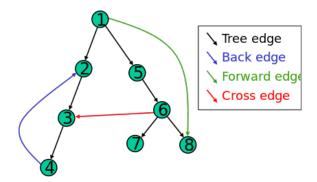


Figure 1: Example graph to be considered for implementation