

Task 1:

Write a Python function to perform a depth-first search (DFS) traversal of the given graph starting from node A. Assume the graph is represented as an adjacency list where keys are nodes and values are lists of adjacent nodes.

Task2:

Use BFS to find the shortest transformation sequence from one word to another in a word ladder puzzle.

Description: Given a start word, an end word, and a dictionary of words, implement BFS to find the shortest transformation sequence from the start word to the end word. Each transformation step involves changing one letter of the word to form a new word that exists in the dictionary