EXP -8 IMPLEMENT DFS

PROGRAM

def dfs(graph, start, visited=None):

if visited is None:

visited = set()

visited.add(start)

print(start, end=' ')

for neighbor in graph[start]:

if neighbor not in visited:

dfs(graph, neighbor, visited)

# Updated graph with G added to C

graph = {

'A': ['B', 'C'],

'B': ['D', 'E'],

'C': ['G'], # Added G

'D': [],

'E': ['F'],

'F': [],

'G': [] # New node G

}

# Run DFS

print("DFS Traversal starting from node A:")

dfs(graph, 'A')

OUTPUT

A B D E F C G