EXP.NO.2 DEPTH FIRST SEARCH

print("V.SANJAY 241801247 07.04.2025")

warehouse\_graph = {

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

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

'C':['F'],

'D':[],

'E':['F'],

'F':[]

}

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

if visited is None:

visited = set()

if path is None:

path = []

visited.add(start)

path.append(start)

if start == goal:

return path

for neighbor in graph[start]:

if neighbor not in visited:

result = dfs(graph, neighbor, goal, visited, path[:])

if result:

return result

return None

start\_node = 'A'

goal\_node = 'F'

path\_found = dfs(warehouse\_graph, start\_node, goal\_node)

print(f"DFS Path from {start\_node} to {goal\_node}: {path\_found}")

OUTPUT:-

