EXP 8:

WRITE A PYTHON PROGRAM FOR DFS

PROGRAM:

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

if visited is None:

visited = set()

# Mark the current node as visited

visited.add(start)

print(start, end=" ")

# Recur for all adjacent vertices

for neighbor in graph[start]:

if neighbor not in visited:

dfs(graph, neighbor, visited)

# Example graph (Adjacency List)

graph = {

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

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

'C': ['F'],

'D': [],

'E': ['F'],

'F': []

}

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

dfs(graph, 'A')

OUTPUT:

