8.Write the python program to implement DFS.

def dfs\_recursive(graph, node, visited=None):

if visited is None:

visited = set()

if node not in visited:

print(node, end=' ')

visited.add(node)

for neighbor in graph[node]:

dfs\_recursive(graph, neighbor, visited)

# Sample graph as adjacency list

graph = {

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

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

'C': ['F'],

'D': [],

'E': ['F'],

'F': []

}

print("DFS Traversal (Recursive):")

dfs\_recursive(graph, 'A')

OUTPUT:

