**EXPERIMENT 8:**

def dfs(graph, start):

visited = set()

stack = [start]

traversal\_order = []

while stack:

node = stack.pop()

if node not in visited:

visited.add(node)

traversal\_order.append(node)

stack.extend(graph[node] - visited)

return traversal\_order

graph = {

'A': {'B', 'C'},

'B': {'A', 'D', 'E'},

'C': {'A', 'F'},

'D': {'B'},

'E': {'B', 'F'},

'F': {'C', 'E'}

}

start\_node = 'A'

result = dfs(graph, start\_node)

print("DFS Traversal Order:", result)

**OUTPUT:**

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