DEPTH FIRST SEARCH :

**# Using a Python dictionary to act as an adjacency list**

**graph = {**

**'5' : ['3','7'],**

**'3' : ['2', '4'],**

**'7' : ['8'],**

**'2' : [],**

**'4' : ['8'],**

**'8' : []**

**}**

**visited = set() # Set to keep track of visited nodes of graph.**

**def dfs(visited, graph, node): #function for dfs**

**if node not in visited:**

**print (node)**

**visited.add(node)**

**for neighbour in graph[node]:**

**dfs(visited, graph, neighbour)**

**# Driver Code**

**print("Following is the Depth-First Search")**

**dfs(visited, graph, '5')**