**Aim:**

To implement the **DFS Algorithm** in Python.

**CODE:**

**def dfs(graph, node, visited):**

**visited.add(node)**

**print(node, end=" ")**

**for neighbor in graph.get(node, []):**

**if neighbor not in visited:**

**dfs(graph, neighbor, visited)**

**graph = {}**

**n = int(input("Enter number of edges: "))**

**print("Enter edges (e.g., A B):")**

**for \_ in range(n):**

**u, v = input().split()**

**if u not in graph:**

**graph[u] = []**

**graph[u].append(v)**

**start = input("Enter start node: ")**

**print("DFS traversal:")**

**visited = set()**

**dfs(graph, start, visited)**

**RESULT:**

**The DFS program was successfully implemented.**