Experiment -2 Depth First Search

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Warehouse implementation using Depth First Search

```
warehouse_graph = {
    'A': ['B', 'C'],
    'B': ['D', 'E'],
    'C': ['F'],
    'D': [],
    'E': ['F'],
    'F': []
}

def dfs(graph, start, goal, visited=None, path=None):
    if visited is None:
        visited = set()
    if path is None:
        path = []

        visited.add(start)
        path.append(start)

        if start == goal:
            return path

            for neighbor in graph[start]:
                if neighbour not in visited:
                    result = dfs(graph, neighbor, goal, visited, path[:])
                    if result:
                        return result
                return None

start_node = 'A'
goal_node = 'F'
path_found = dfs(warehouse_graph, start_node, goal_node)
print(f"DFS Path from {start_node} to {goal_node}: {path_found}")
```

Output :

DFS Path From A to F: [‘A’, ‘B’, ‘E’, ‘F’]
(Or)
DFS Path From A to F: [‘A’, ‘C’, ‘F’]