DEPTH FIRST SEARCH

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```
Program;
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)
```

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if start == goal:
    return path
    for neighbor in graph[start]:
    if neighbor 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']
```

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