```
BFS:-
graph = {
    'S' : ['A','D'],
    'A' : ['C'],
    'D' : ['G'],
    'C' : ['G'],
    'G' : []
def BFS_goal(graph:dict,start,goal)->list[str]:
    queue = []
    res = []
    queue.append(start)
    while queue:
        elem = queue.pop(0)
        if elem not in res:
            res.append(elem)
            if elem==goal:return res
            for vertex in graph[elem]:
                queue.append(vertex)
    return goal + " Node Not Found"
for element in BFS_goal(graph, "S", "C"):
                    print(element, end=" ")
print("")
```

DFS:-

```
graph = {
    'S': ['A', 'D'],
    'A': ['C'],
    'D': ['G'],
    'C': ['G'],
    'G': []
}
def DFS goal(graph: dict, start: str, goal: str) -> list[str]:
    visited = set()
    res = []
    def dfs helper(node: str):
        if node in visited:
            return None
        visited.add(node)
        res.append(node)
        if node == goal:
            return res
        for vertex in graph.get(node, []):
            path = dfs helper(vertex)
            if path:
                return path
        return None
    result = dfs helper(start)
    if result:
        return result
    return goal + " Node Not Found"
for element in DFS goal(graph, "S", "C"):
print(element, end=" ")
print("")
```