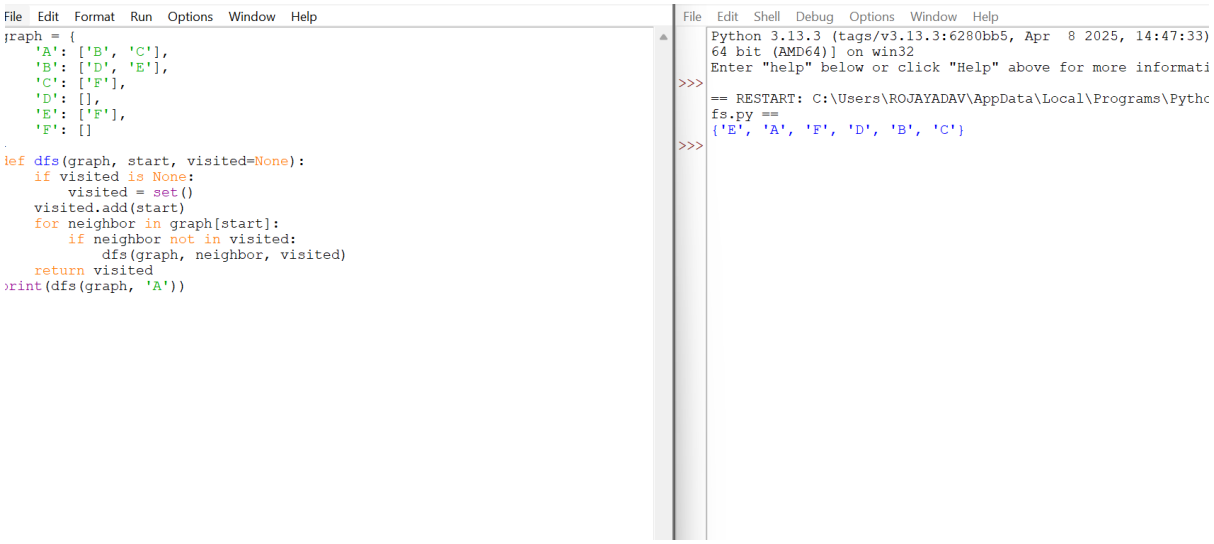
Write the Python Program to Implement DFS.



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

def dfs(graph, start, visited=None):
    if visited is None:
        visited = set()
    visited.add(start)
    for neighbor in graph[start]:
        if neighbor not in visited:
            dfs(graph, neighbor, visited)
    return visited
print(dfs(graph, 'A'))
```

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```
Python 3.13.3 (tags/v3.13.3:6280bb5, Apr  8 2025, 14:47:33)
64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more informati
>>>
== RESTART: C:\Users\ROJAYADAV\AppData\Local\Programs\Pythc
fs.py ==
{'E', 'A', 'F', 'D', 'B', 'C'}
>>>
```