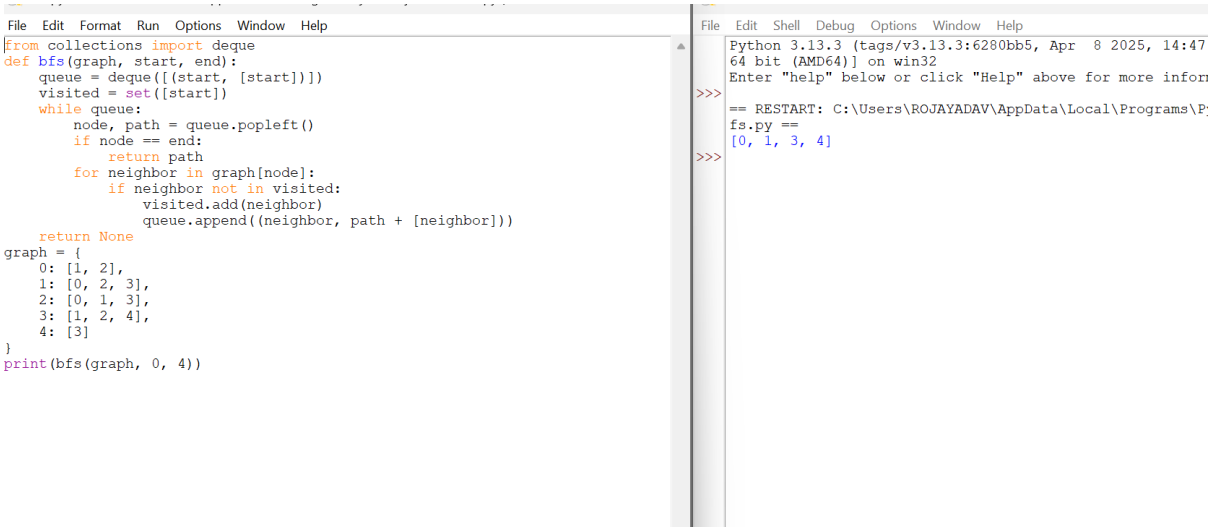
Write the Python Program to implement BFS



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```
from collections import deque
def bfs(graph, start, end):
    queue = deque([(start, [start])])
    visited = set([start])
    while queue:
        node, path = queue.popleft()
        if node == end:
            return path
        for neighbor in graph[node]:
            if neighbor not in visited:
                visited.add(neighbor)
                queue.append((neighbor, path + [neighbor]))
    return None
graph = {
    0: [1, 2],
    1: [0, 2, 3],
    2: [0, 1, 3],
    3: [1, 2, 4],
    4: [3]
}
print(bfs(graph, 0, 4))
```

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```
Python 3.13.3 (tags/v3.13.3:6280bb5, Apr  8 2025, 14:47
64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more infor
>>>
== RESTART: C:\Users\ROJAYADAV\AppData\Local\Programs\P
fs.py ==
[0, 1, 3, 4]
>>>
```