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Depth -First Search

Code:

```
graph = {
· '5' : ['3','7'],
  '3' : ['2', '4'],
 '7' : ['8'],
  '2' : [],
  '4' : ['8'],
  '8' : []
visited = set() # Set to keep track of visited nodes of graph.
def dfs(visited, graph, node): #function for dfs
    if node not in visited:
        print (node)
        visited.add(node)
        for neighbour in graph[node]:
            dfs(visited, graph, neighbour)
# Driver Code
print("Following is the Depth-First Search")
dfs(visited, graph, '5')
```

Output:

```
Following is the Depth-First Search

5

3

2

4

8

7
```