Program

```
graph = {
'5' : ['3','7'],
'3' : ['2', '4'],
'7' : ['8'],
'2' : [],
'4' : ['8'],
'8' : []
}def dfs(graph,start):
visited = set()
stack = [start]
while stack:
node = stack.pop()
if node not in visited:
print(node)
visited.add(node)
for neighbor in graph[node]:
if neighbor not in visited:
stack.append(neighbor)
print("Following is the Depth-First Search")
dfs(graph, '5')
```

Output:

Following is the Depth-First Search

5

3

2

4

8

7

R