## **Experiment-8: Depth First Search**

## Aim:

To Print a Python Program to implement Depth First Search.

```
Program:
def dfs(graph, node):
 print(node)
 visited = set()
 def dfs recursive(node):
  visited.add(node)
  for neighbor in graph[node]:
    if neighbor not in visited:
     print(neighbor)
     dfs_recursive(neighbor)
 dfs recursive(node)
graph = {
 'A': ['B', 'C'],
 'B': ['D', 'E'],
 'C': ['F'],
 'D': [],
 'E': ['F'],
 'F': [],
}
dfs(graph, 'A')
```

## OUTPUT:

Α

В

D

Ε

F

С

## Result:

The Code has been implemented Successfully.