WRITE A PROGRAM TO IMPLEMENT DFS

AIM:

To write a python program to implement DFS(Depth First Search)

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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:

RESULT:

The program was executed successfully and result is obtained.