## Program 8 DFS

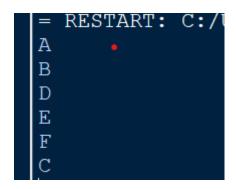
## AIM:

To Create a python program to implement DFS

```
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': [],
}
```

## **OUTPUT**:

dfs(graph,'A')



## **RESULT:**

The Program has successfully been executed.