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Roll No. 35

DFS Algorithm in Python (AI)

Code:

```
graph = {
   "A": ["B", "C", "D"],
   "B": ["E"],
   "C": ["D", "E"],
   "D": [],
   "E": [],
}
print(graph)
visited = set()
def dfs(visited, graph, root):
   if root not in visited:
      print(root)
      visited.add(root)
      for neighbour in graph[root]:
         dfs(visited, graph, neighbour)
dfs(visited, graph, "A")
```

Output:

```
{'A': ['B', 'C', 'D'], 'B': ['E'], 'C': ['D', 'E'], 'D': [], 'E': []}
A
B
E
C
D
```