Practical 1

Q1) Demonstrate DFS Algorithm Ans:

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dfs.py
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dfs.py
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Practical: 1
Objective: Demonstrate DFS Algorithm
def dfsRecursive(graph, start, visited=None):
    if visited is None:
         visited = set()
    visited.add(start)
    print(start, end=" ")
    for next in graph[start] - visited:
         dfsRecursive(graph, next, visited)
    return visited
big graph= {
    "a": set(["k", "c", "l"]),
"b": set(["k", "j"]),
    "c": set(["a"]),
    "d": set(["k", "g"]),
    "e": set(["j"]),
    "f": set(["h", "i"]),
"g": set(["d", "f"]),
    "h": set(["f"]),
    "i": set([["f"]),
    "j": set(["b", "e"]),
"k": set(["a", "b", "d"]),
    "l": set(["a"]),
}
dfsRecursive(big_graph, 'a')
print("\n")
```

