Practical 2

2109805

Q1) Demonstrate BFS Algorithm.

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Ans:
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bfs.py
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bfs.py
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Practical: 2
Objective: Demonstrate BFS Algorithm
def bfs(visit_complete, graph, current_node):
    visit complete.append(current node)
    queue = []
    queue.append(current node)
    while queue:
         s = queue.pop(0)
         print(s)
         for neighbour in graph[s]:
              if neighbour not in visit complete:
                  visit complete.append(neighbour)
                  queue.append(neighbour)
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"]),
}
bfs([], big_graph, 'a')
```

