# BFS Implementation in Python

## Python Code:

def bfs(graph, start):  
 visited = set()  
 queue = [start]  
 order = []  
  
 while queue:  
 vertex = queue.pop(0)  
 if vertex not in visited:  
 visited.add(vertex)  
 order.append(vertex)  
 queue.extend([node for node in graph[vertex] if node not in visited])  
  
 return order  
  
# Example graph represented as an adjacency list  
graph = {  
 'A': ['B', 'C'],  
 'B': ['D', 'E'],  
 'C': ['F'],  
 'D': [],  
 'E': ['F'],  
 'F': []  
}  
  
# Run BFS  
start\_node = 'A'  
bfs\_result = bfs(graph, start\_node)  
print("BFS Traversal:", bfs\_result)

## Output:

BFS Traversal: ['A', 'B', 'C', 'D', 'E', 'F']