7.Write the python program to implement BFS.

from collections import deque

def bfs(graph, start\_node):

visited = set()

queue = deque([start\_node])

print("BFS Traversal:")

while queue:

node = queue.popleft()

if node not in visited:

print(node, end=' ')

visited.add(node)

for neighbor in graph[node]:

if neighbor not in visited:

queue.append(neighbor)

# Sample graph represented as an adjacency list (dictionary)

graph = {

'A': ['B', 'C'],

'B': ['D', 'E'],

'C': ['F'],

'D': [],

'E': ['F'],

'F': []

}

# Starting BFS from node 'A'

bfs(graph, 'A')

OUTPUT

