PROGRAM 7 :

graph = {

'5' : ['3','7'],

'3' : ['2', '4'],

'7' : ['8'],

'2' : [],

'4' : ['8'],

'8' : []

}

visited = [] # List for visited nodes.

queue = [] #Initialize a queue

def bfs(visited, graph, node): #function for BFS

visited.append(node)

queue.append(node)

while queue: # Creating loop to visit each node

m = queue.pop(0)

print (m, end = " ")

for neighbour in graph[m]:

if neighbour not in visited:

visited.append(neighbour)

queue.append(neighbour)

# Driver Code

print("Following is the Breadth-First Search")

bfs(visited, graph, '5')

OUTPUT: 