Task1:

```
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:
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') # function calling
```

Output:

```
Following is the Breadth-First Search
5 3 7 2 4 8
```