a program to implement bfs with the input of graph and the goal node to be searched, your output will show the path from the root node to goal node only

In [1]:
```
graph = {'A': ['B','C'],
         'B': ['A','D','E'],
         'C': ['F','G','A'],
         'D': ['B'],
         'E': ['H','B'],
         'F': ['C'],
         'G': ['C'],
         'H': ['E']
        }
```

In [2]:
```
def dfs(graph,start,end,route,list):
    route+=[start]
    if start == end:
        list.extend(route)
    else:
        for node in graph[start]:
            if node not in route:
                dfs(graph,node,end,route,list)

def dfs_route(graph,start,end):
    list = []
    dfs(graph,start,end,[],list)
    return list

print(dfs_route(graph,'A','G'))
```

```
['A', 'B', 'D', 'E', 'H', 'C', 'F', 'G']
```

In [ ]:
```

```