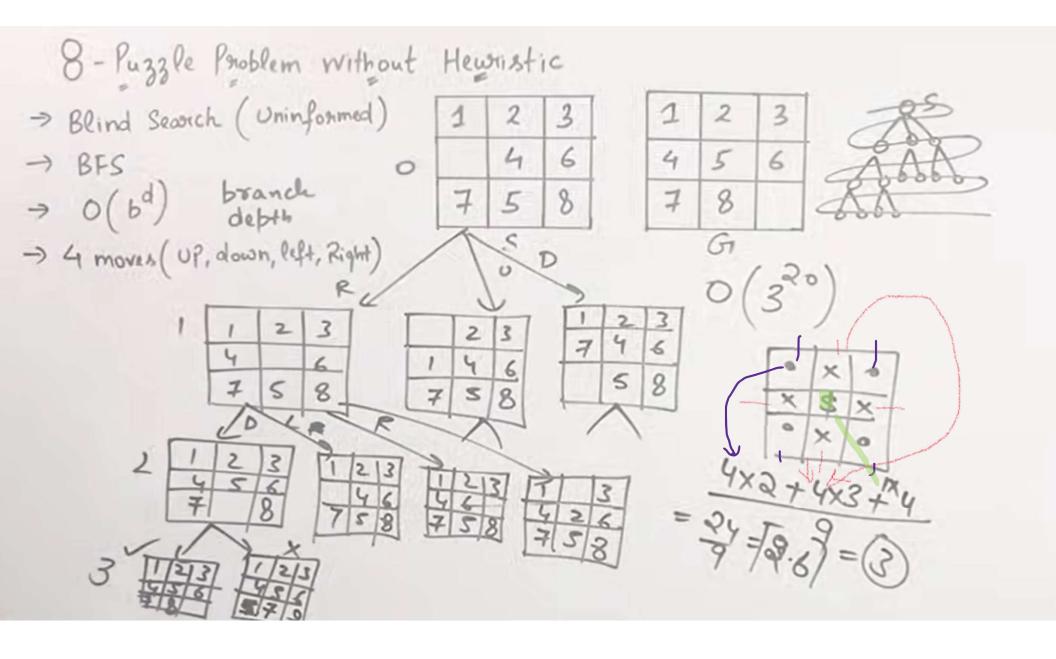


```
graph = {
 'A' : ['B', 'C'],
 'B' : ['D', 'E'],
 'C' : ['F'],
 'D' : [],
 'E' : [],
 'F' : []
visited = [] # List to keep track of visited nodes.
               #Initialize a queue
queue = []
def bfs(visited, graph, node):
 visited.append(node)
 queue.append(node)
 while queue:
   s = queue.pop(0)
   print (s, end = " ")
   for neighbour in graph[s]:
     if neighbour not in visited:
        visited.append(neighbour)
        queue.append(neighbour)
# Driver Code
bfs(visited, graph, 'A')
```

```
graph = {
  'A' : ['B', 'C'],
 'B' : ['D', 'E'],
 'C' : ['F'],
 'D' : [].
  'E' : ['G'].
 'F' : ['H', 'I']
3
visited = [] # List to keep track of visited nodes.
queue = []
               #Initialize a queue
def bfs(visited, graph, node, goal):
    visited.append(node)
    queue.append(node)
    while queue:
        s = queue.pop(0)
        print(s, end=" ")
        if s == goal:
            print("\nGoal state reached:", goal)
            return
        for neighbour in graph[s]:
            if neighbour not in visited:
                visited.append(neighbour)
                queue.append(neighbour)
# Driver Code
bfs(visited, graph, 'A', 'G')
```



#### TASKS

- #1. Using DFS find the goal state (Python Implementation).
- #2. Implementation of DFS to traverse each node.
- #3. Implementation of Sliding puzzle using DFS.