Instructions to run

File: Creatingnodes2

This file contains code to create the CSV file.
Steps to run:

- Open the file in Vscode.
- Click on the file explorer and select the folder where the code is present to save the CSV file.
- Change the NUM_RECORDS variable to the number of nodes you want to generate.
- Click on the run button and this will generate the CSV file with the required number of nodes and save it to the selected folder.

File : Searching

This file contains code to perform DFS and BFS
Steps to run:

- Open the file in VScode
- Change the neo4j username and password according to your system.
- Copy the csv file that you want to generate graph for and place it in the location similar to "C:\Users\lkg31\.Neo4jDesktop\relate-data\dbmss\dbms-f110fc1e-f5cd-4c0d-b206-ab5def537f7b\import"
- In the below query :"""

```
    LOAD CSV WITH HEADERS FROM
'file:///unique_relationship_matrix_40.csv' AS line
    MERGE (n:Node {name: line.child_node})
    MERGE (m:Node {name: line.parent_node})
    MERGE (n)<-[r:isParentOf {rType: line.relationship_type}]-(m)
    """
```

-
- Change the name of the node and relationship(i.e. rType: line.relationship_type to relation: line.relation_type) to the headers present in the CSV file.
- Click on the run button. This will generate a graph displaying the DFS and BFS time for different queries