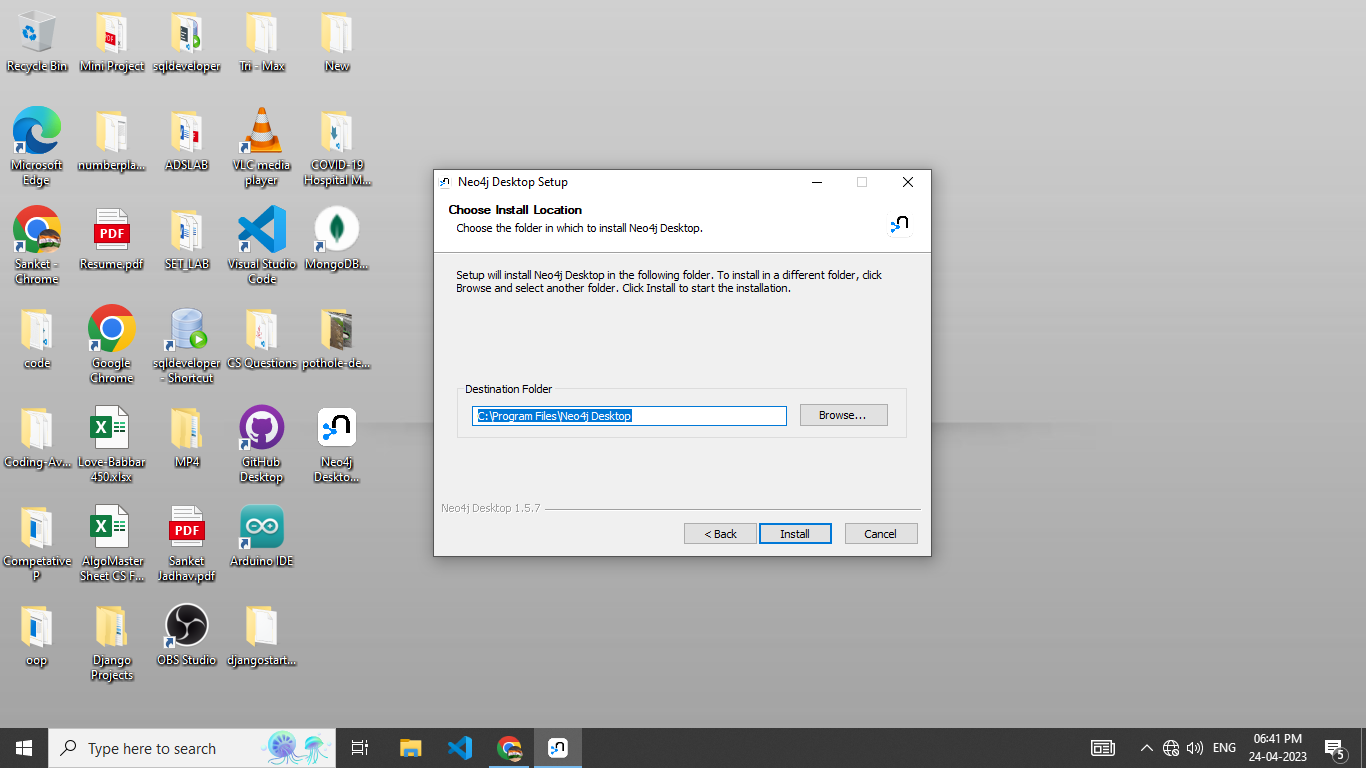
***Advanced Database System Lab***

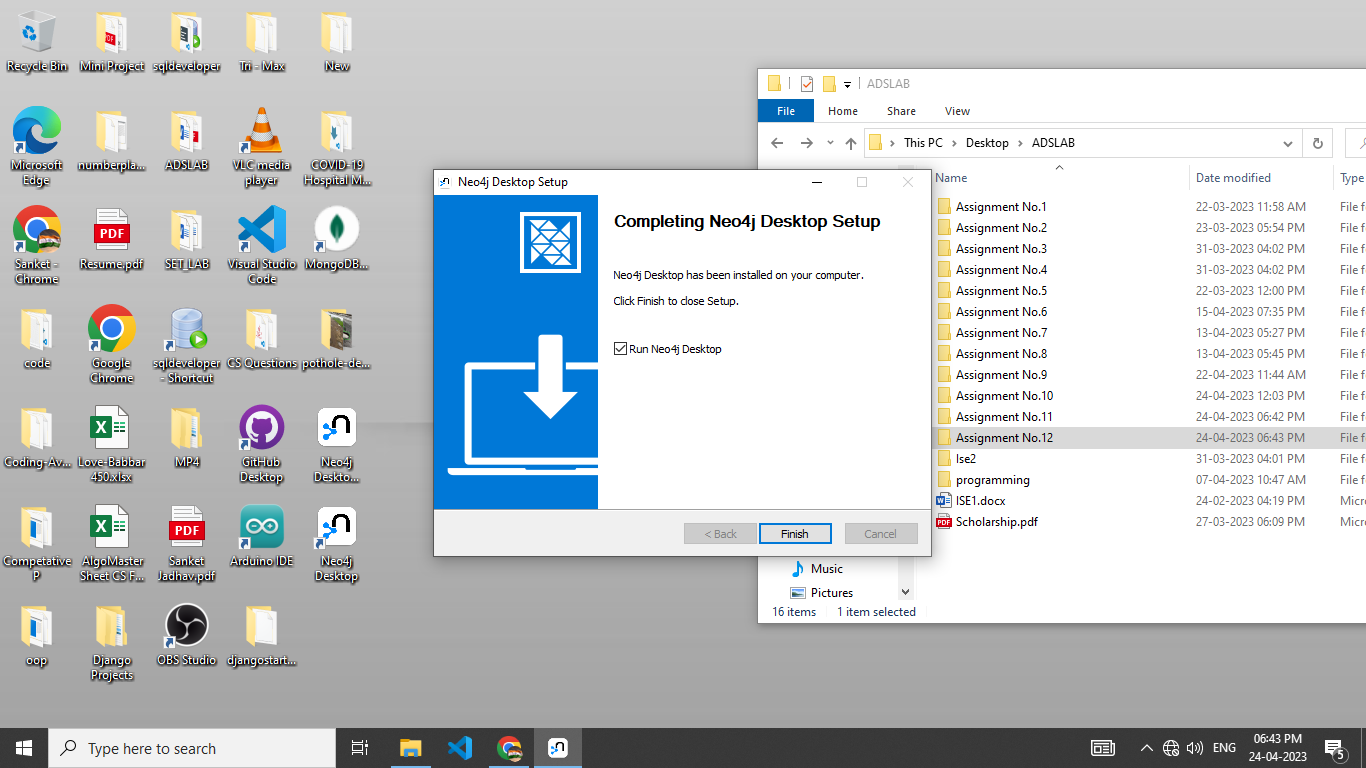
**Assignment no. 11**

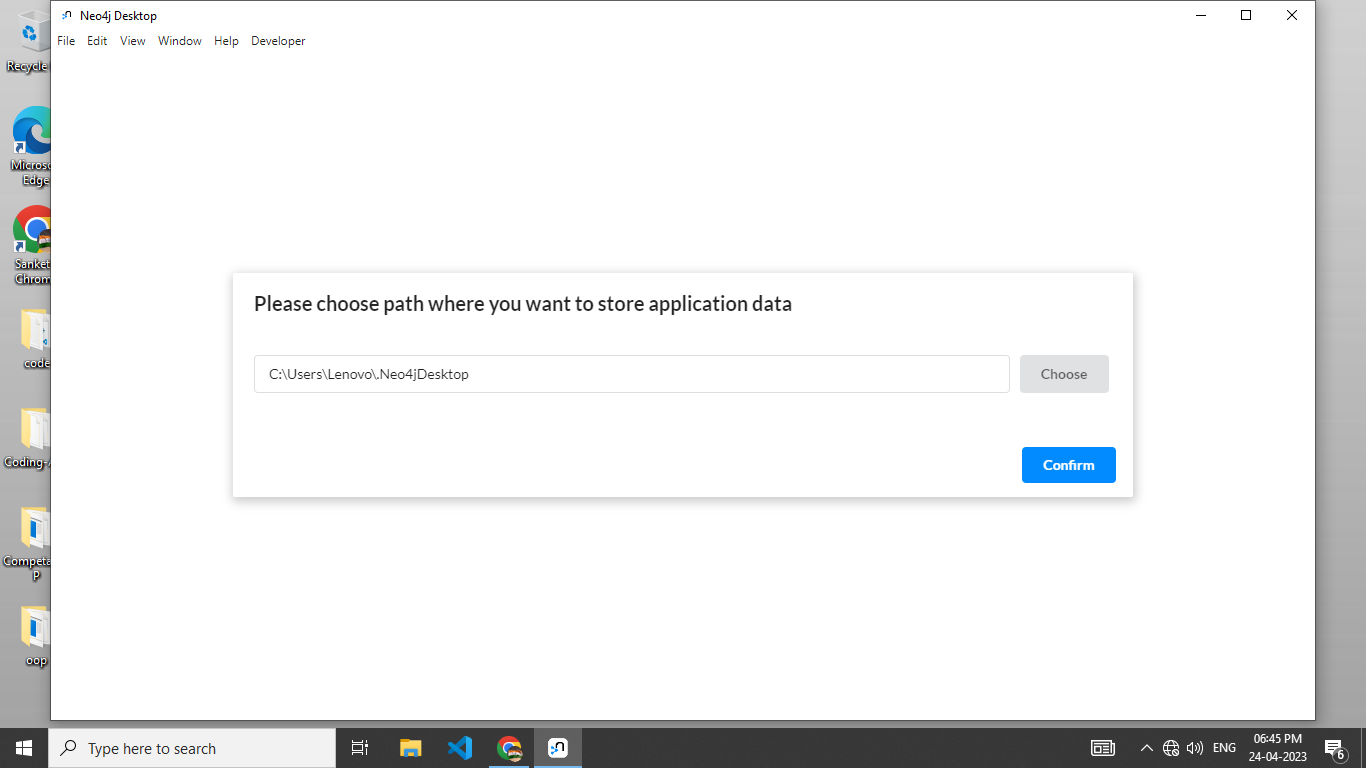
**PRN:** 2020BTECS00005

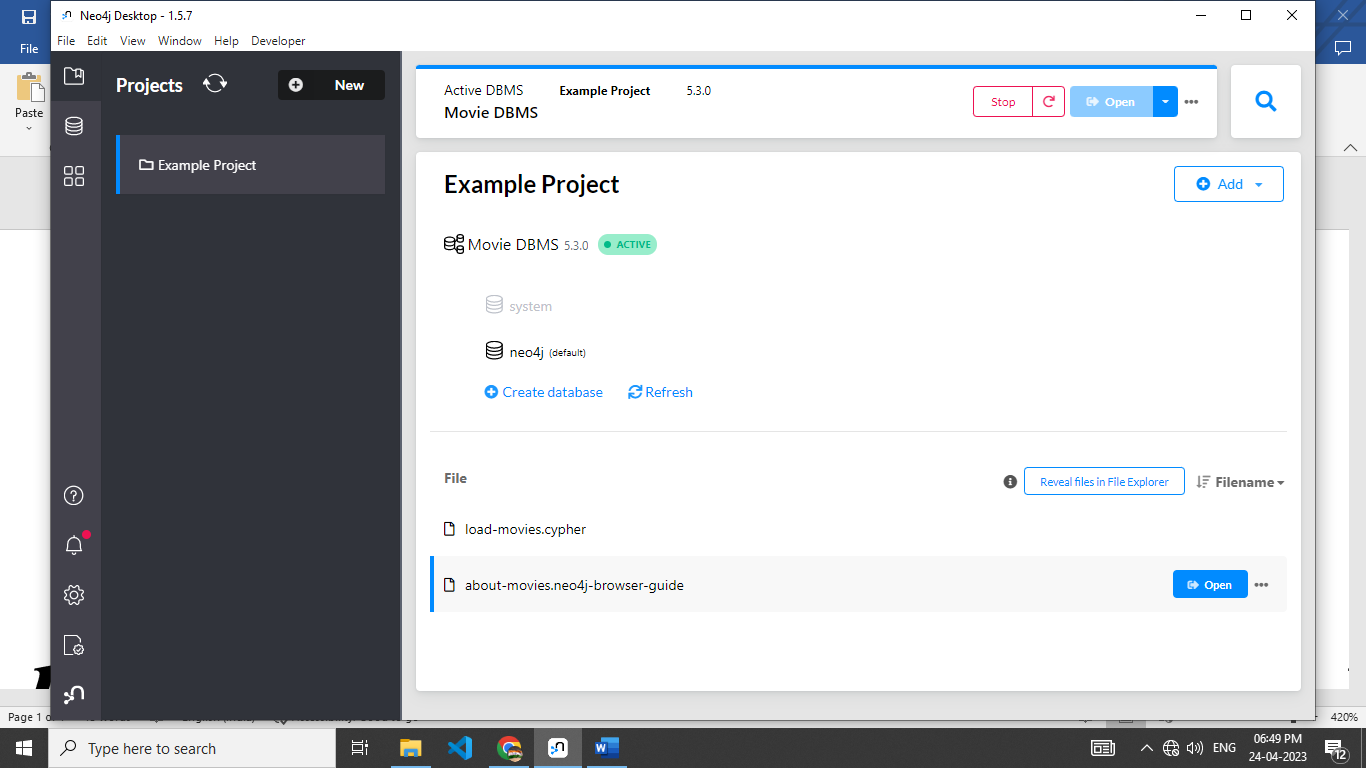
**Name:** Sanket Shivaji Jadhav

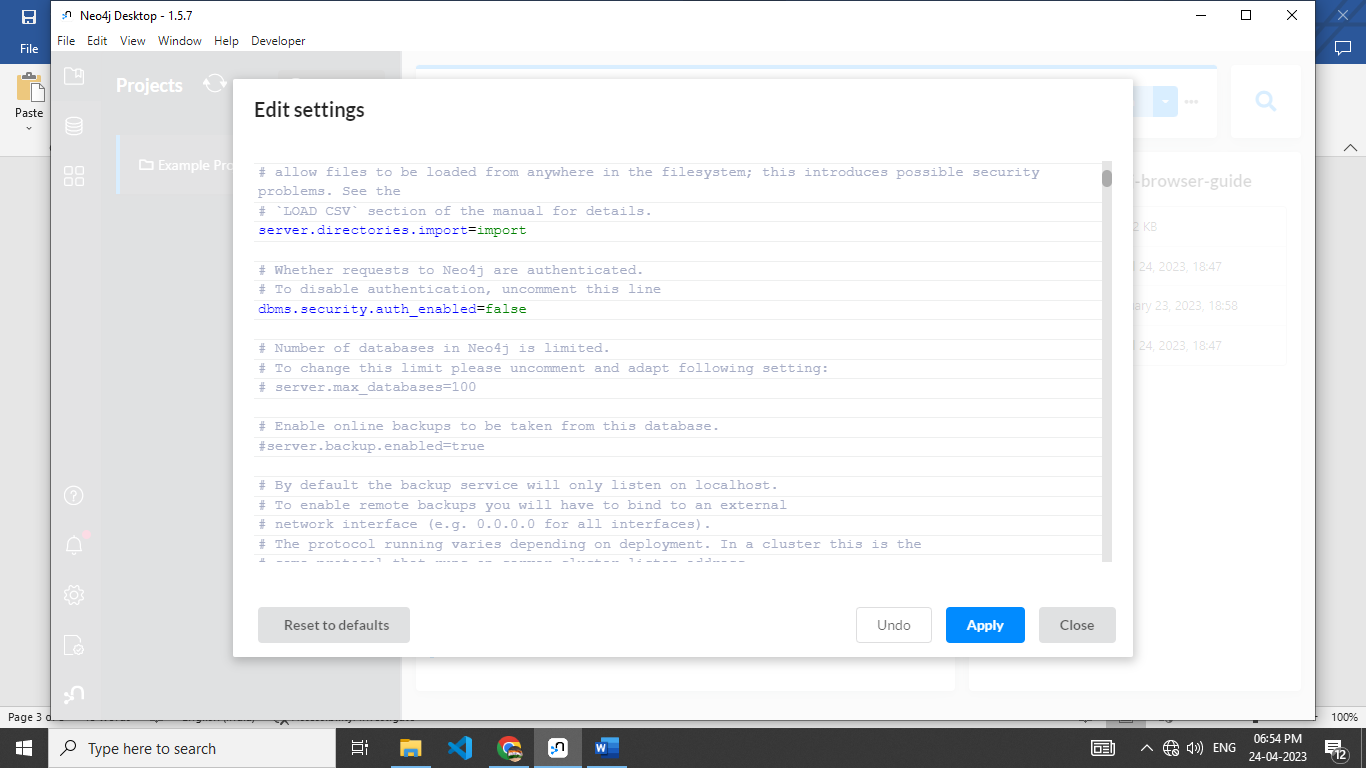
**Neo4j Installation**

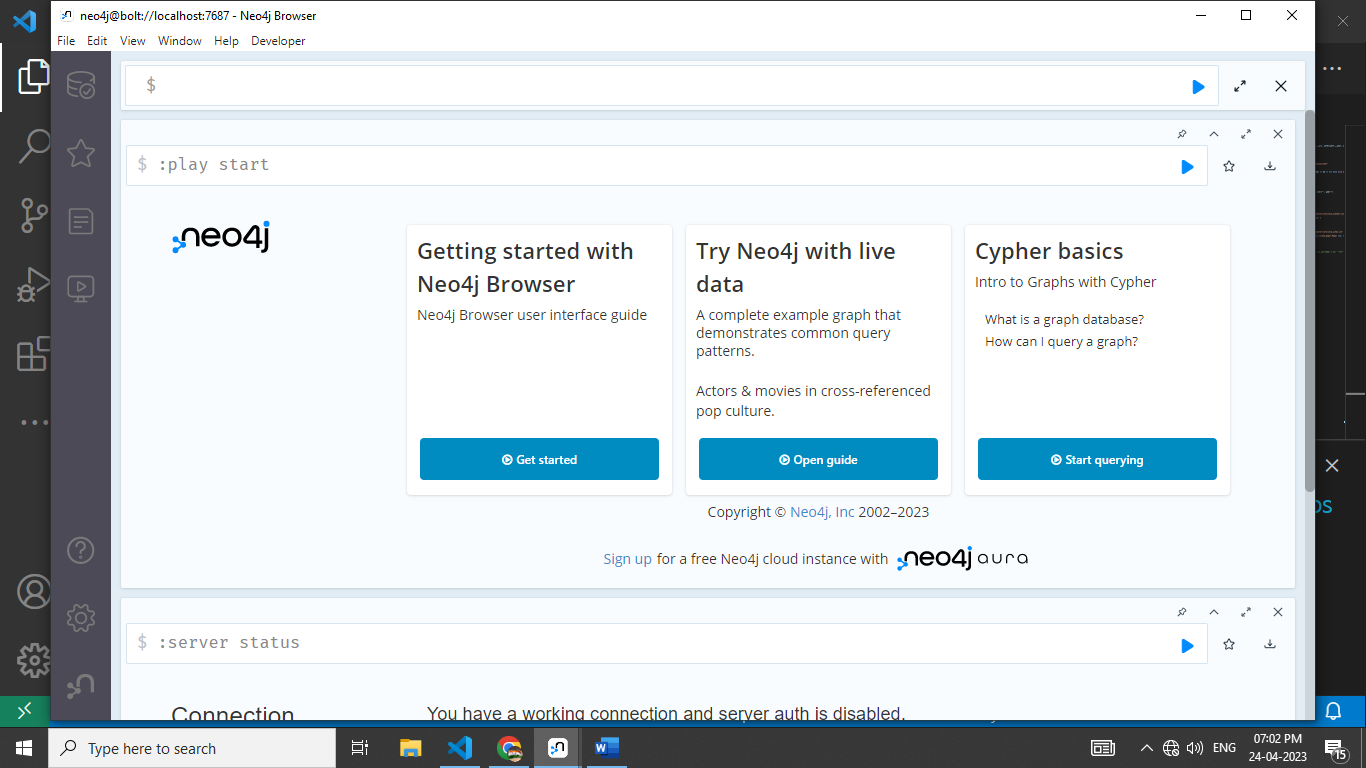












Code :

from neo4j import GraphDatabase

class Neo4jConnection:

    def \_\_init\_\_(self, uri, user, pwd):

        self.\_\_uri = uri

        self.\_\_user = user

        self.\_\_pwd = pwd

        self.\_\_conn = None

        try:

            self.\_\_conn = GraphDatabase.driver(self.\_\_uri, auth=(self.\_\_user, self.\_\_pwd))

        except Exception as e:

            print("Failed to create the conn:", e)

    def close(self):

        if self.\_\_conn is not None:

            self.\_\_conn.close()

    def query(self, query, db=None):

        assert self.\_\_conn is not None, "conn not initialized!"

        session = None

        response = None

        try:

            session = self.\_\_conn.session(database=db) if db is not None else self.\_\_conn.session()

            response = list(session.run(query))

        except Exception as e:

            print("Query failed:", e)

        finally:

            if session is not None:

                session.close()

        return response

conn = Neo4jConnection(uri="bolt://localhost:7687", user="", pwd="")

# res = conn.query("show databases")

# print(res)

# conn.query("CREATE OR REPLACE DATABASE coradb")

query\_string = '''

CALL {

LOAD CSV WITH HEADERS FROM

'https://raw.githubusercontent.com/ngshya/datasets/master/cora/cora\_content.csv'

AS line FIELDTERMINATOR ','

CREATE (:Paper {id: line.paper\_id, class: line.label}) }

'''

conn.query(query\_string, db='coradb')

query\_string = '''

CALL{

LOAD CSV WITH HEADERS FROM

'https://raw.githubusercontent.com/ngshya/datasets/master/cora/cora\_cites.csv'

AS line FIELDTERMINATOR ','

MATCH (citing\_paper:Paper {id: line.citing\_paper\_id}),(cited\_paper:Paper {id: line.cited\_paper\_id})

CREATE (citing\_paper)-[:CITES]->(cited\_paper)}

'''

conn.query(query\_string, db='coradb')

