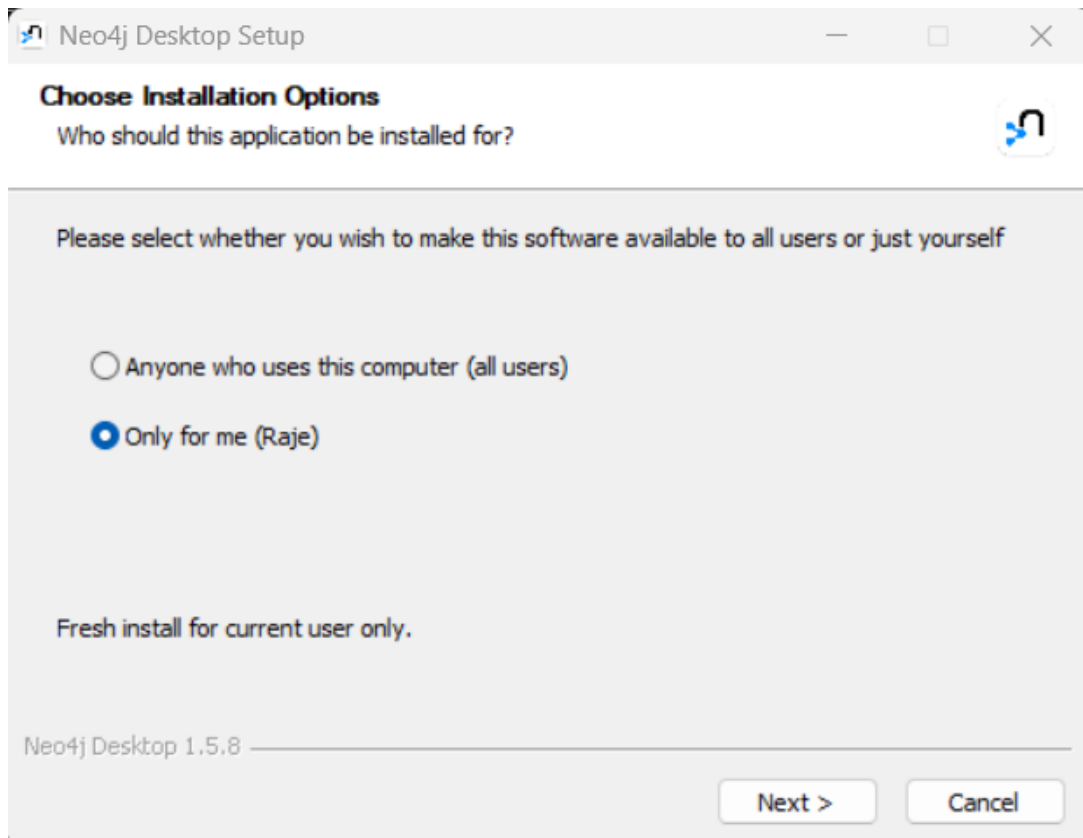


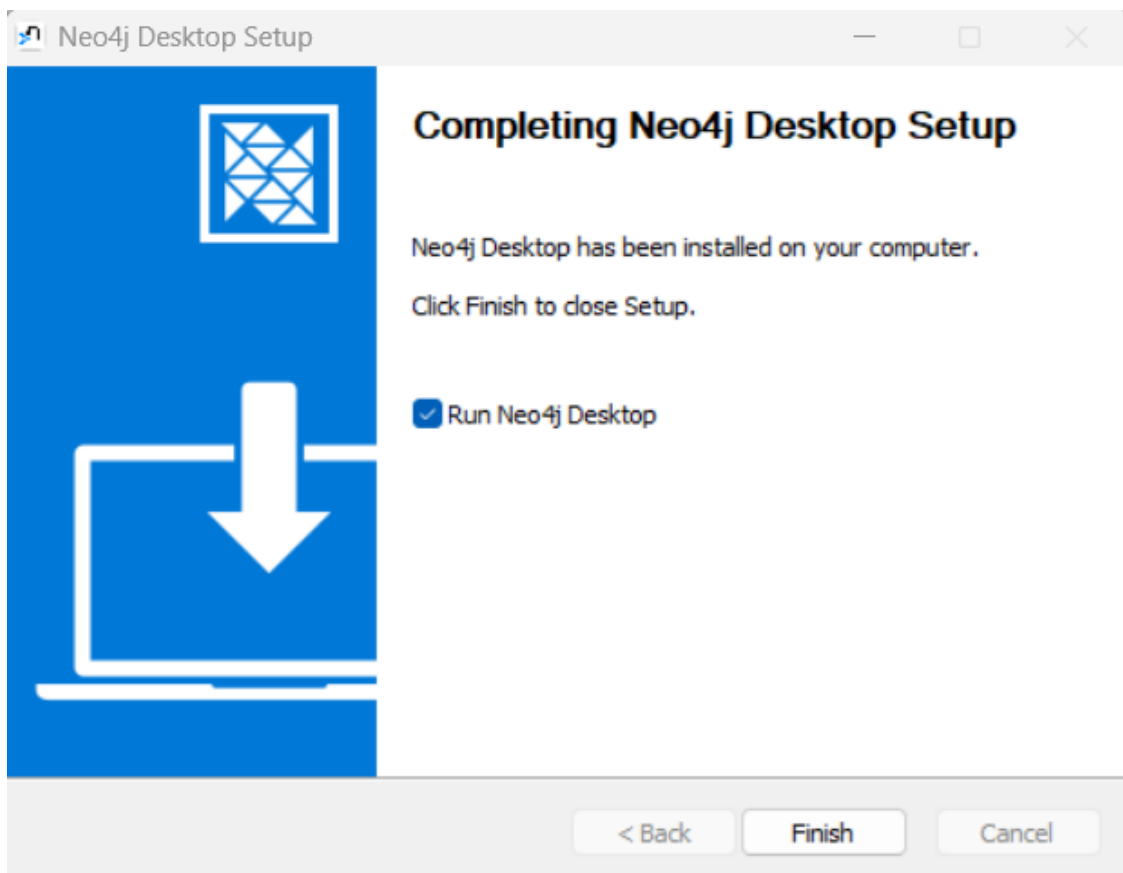
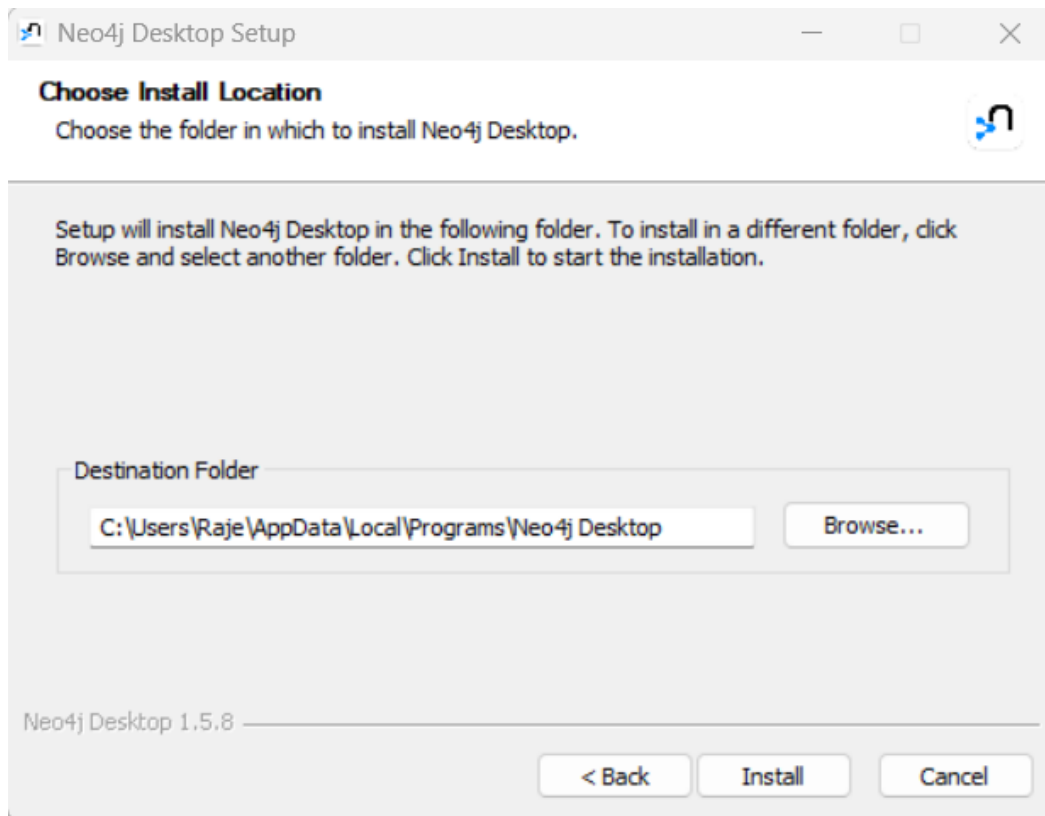
TY B.Tech. (CSE) – II [2022-23]
5CS372 : Advanced Database System Lab.
Assignment No. 11

PRN: 2020BTECS00033

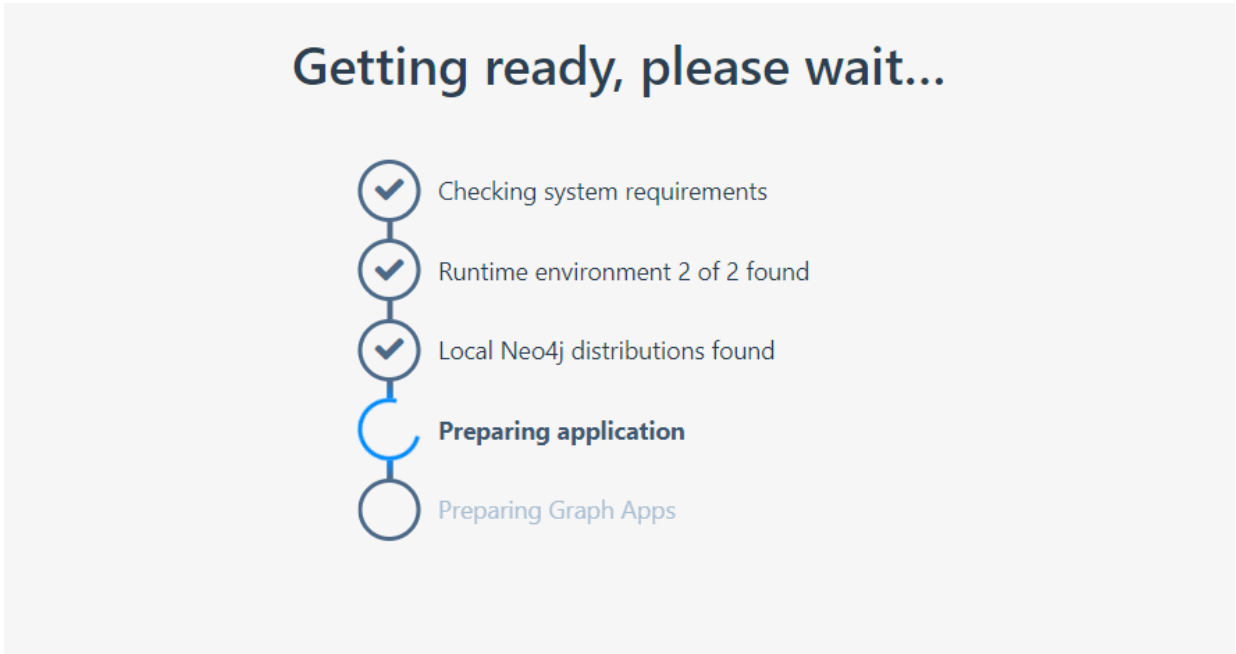
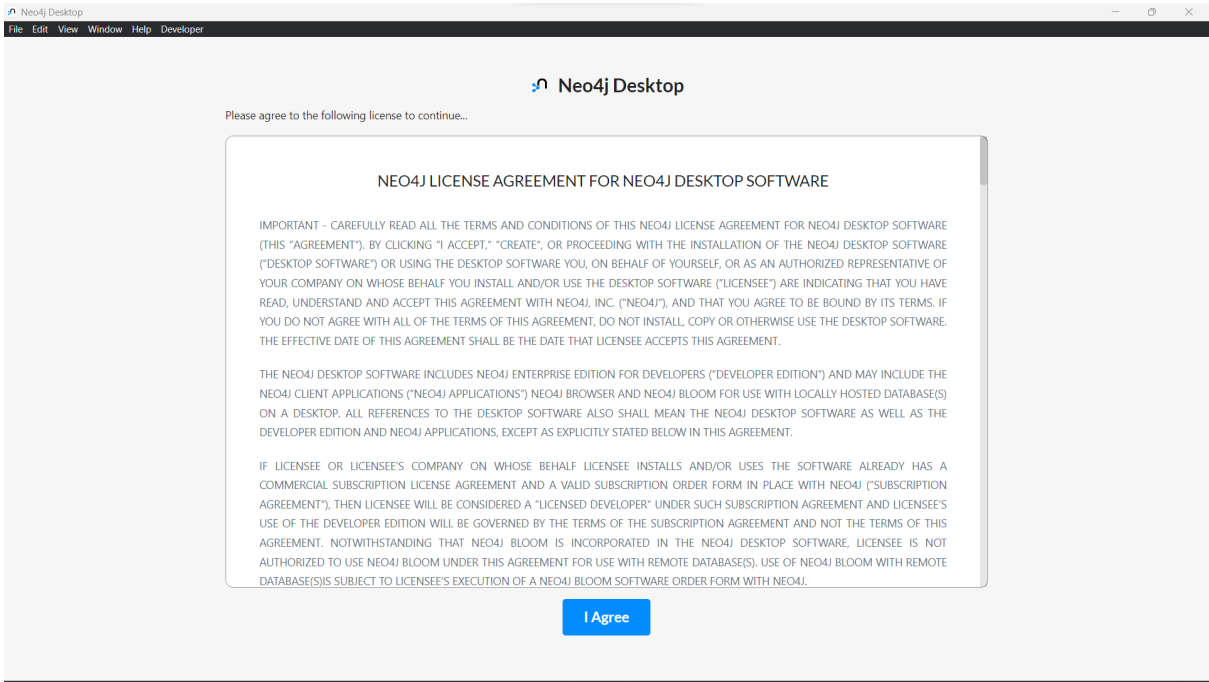
Name: Prathamesh Raje

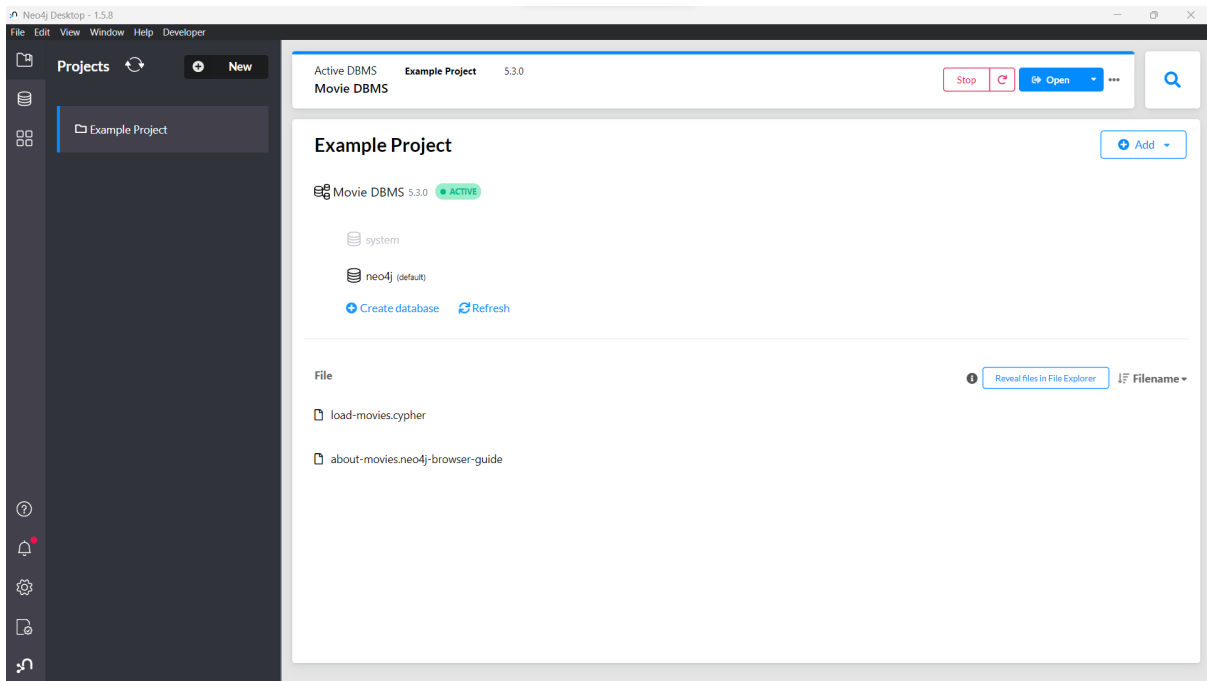
Title: Installation of Neo4j Desktop





Creating the New Database





Edit settings

```
#server.directories.transaction.logs.root=data/transactions
#server.directories.dumps.root=data/dumps

# This setting constrains all `LOAD CSV` import files to be under the `import` directory. Remove or
comment it out to
# allow files to be loaded from anywhere in the filesystem; this introduces possible security
problems. See the
# `LOAD CSV` section of the manual for details.
server.directories.import=import

# Whether requests to Neo4j are authenticated.
# To disable authentication, uncomment this line
dbms.security.auth_enabled=false

# Number of databases in Neo4j is limited.
# To change this limit please uncomment and adapt following setting:
# server.max_databases=100

# Enable online backups to be taken from this database.
#server.backup.enabled=true

# By default the backup service will only listen on localhost.
# To enable remote backups you will have to bind to an external
# network interface (e.g. 0.0.0.0 for all interfaces).
# The protocol running varies depending on deployment. In a cluster this is the
```

Reset to defaults

Undo

Apply

Close

GUI Python File 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')
```

```
# a = '1152448'
```

```
# b = '2354'
```

```
# query_string = " MATCH (p1:Paper { id: '" + a + "' }),(p2:Paper { id: '"+b+"' } ), path =  
shortestPath((p1)-[*..15]->(p2)) return path "
```

```
# print(query_string)
```

```
# res = conn.query(query_string,db='coradb')
```

```
# print(res)
```

View the Database in Neo4j Browser

