

For connection to the local database via python on your own computer; following instructions are required:

1. Installing python on your own computer:
  - a. Installing anaconda from the following link:  
<https://www.anaconda.com/distribution/#windows>
2. Please run Anaconda command Prompt as Administrator
3. Copy (`conda install -c anaconda postgresql`) in anaconda command prompt.
4. Installing PostgreSQL from the following link; during installation you are asked to enter the password which can be any password you like but it is needed to remember it later.
  - a. <https://www.postgresql.org/>
  - b. In "Setup -> Select Components", Please select "PostgreSQL Server", "pgAdmin4", "Command Line Tools"
  - c. You are asked to set a password; please keep this password.
  - d. Once PostgreSQL setup wizard completed, tick off the check box and finish the installation.
  - e. Open "pgAdmin4" as management tools for PostgreSQL
  - f. Enter your pre-set password.
    - i. If you forget the password, please right click on "Server" which is located on the top left corner of the window. Go to "Create -> Server". In General tab, select the name for your server. In Connection section, host name should be "localhost"; port is "5432", username and password can be set as you like.
    - ii. Then "Save" the local server.
5. After connection to the server, you have two options to connect to work with the server.
  - a. First, open jupyter notebook; New -> Terminal, and then run the following command:
  - b. Second, apply following commands in the python (more details will be taught in week 5 ):

```
import psycopg2
```

```
def pgconnect():
```

```
    # please replace <your_unikey> and <your_SID> with your own details
```

```
    try:
```

```
        conn = psycopg2.connect(host='localhost',
                                database='postgres',
                                user='postgres',
                                password='ABC1234')
```

```
        print('connected')
```

```
    except Exception as e:
```

```
        print("unable to connect to the database")
```

```
        print(e)
```

```
    return conn
```

```
conn = pgconnect();
```