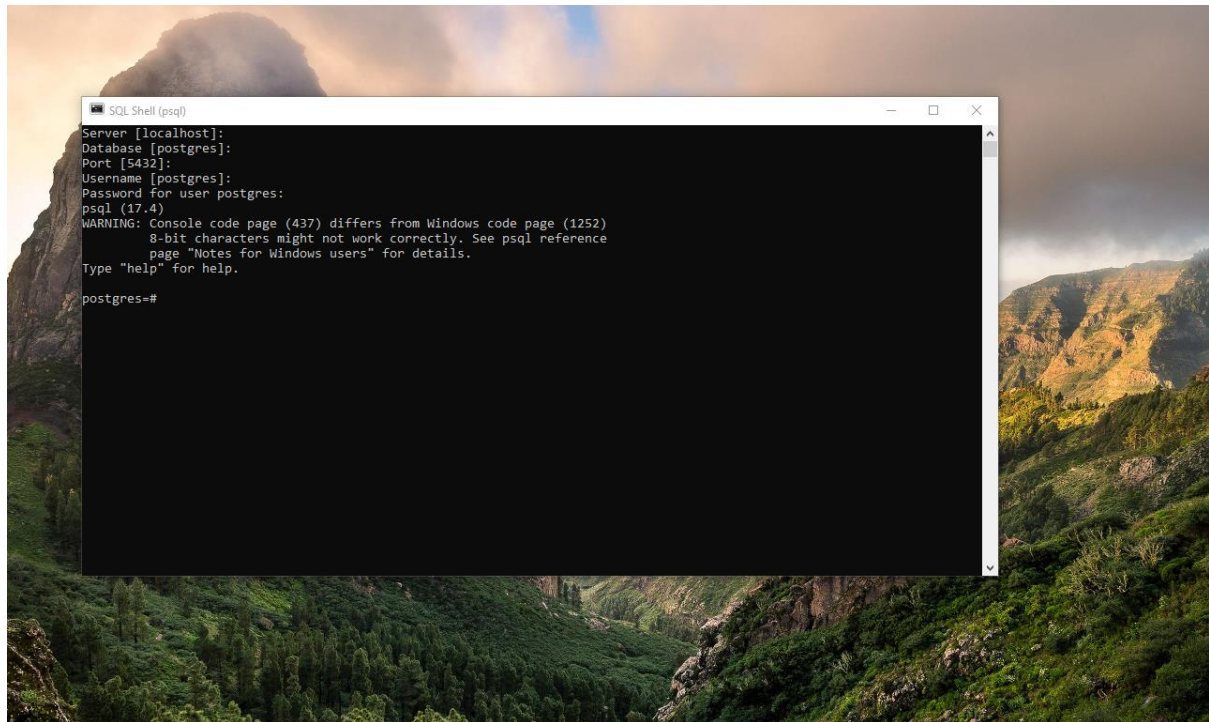
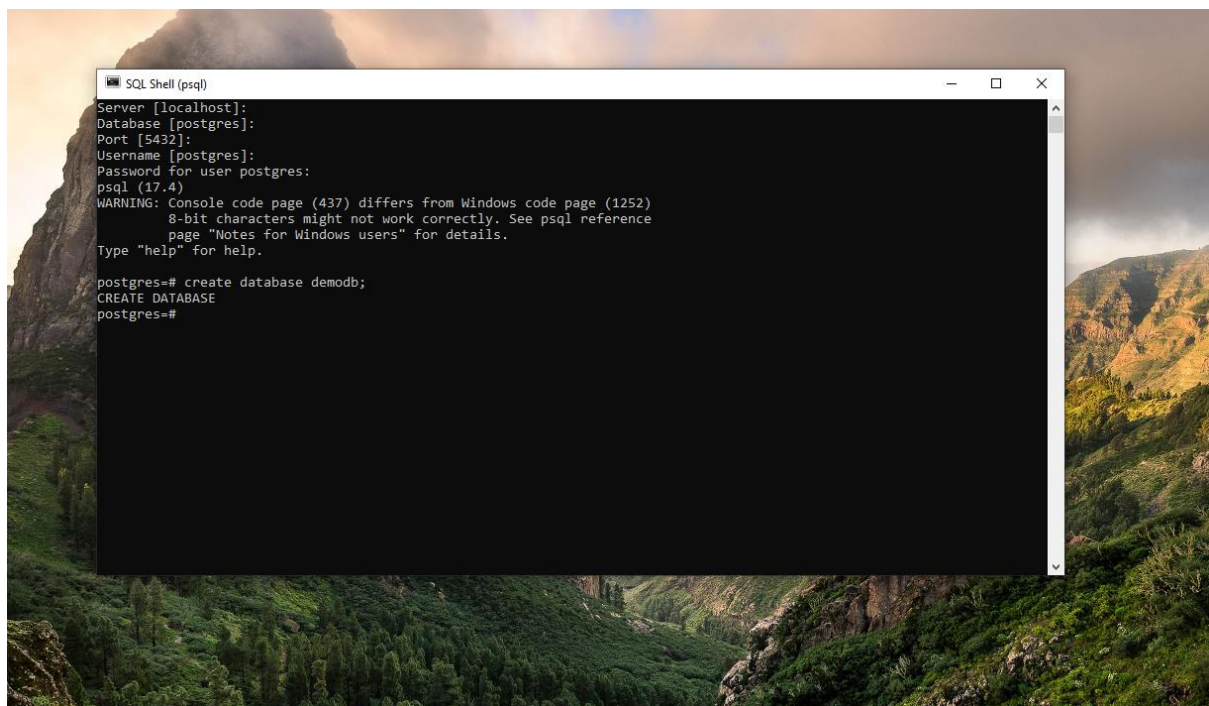


Subramanya. M
Subramanya.smg@gmail.com
+91 9880694144

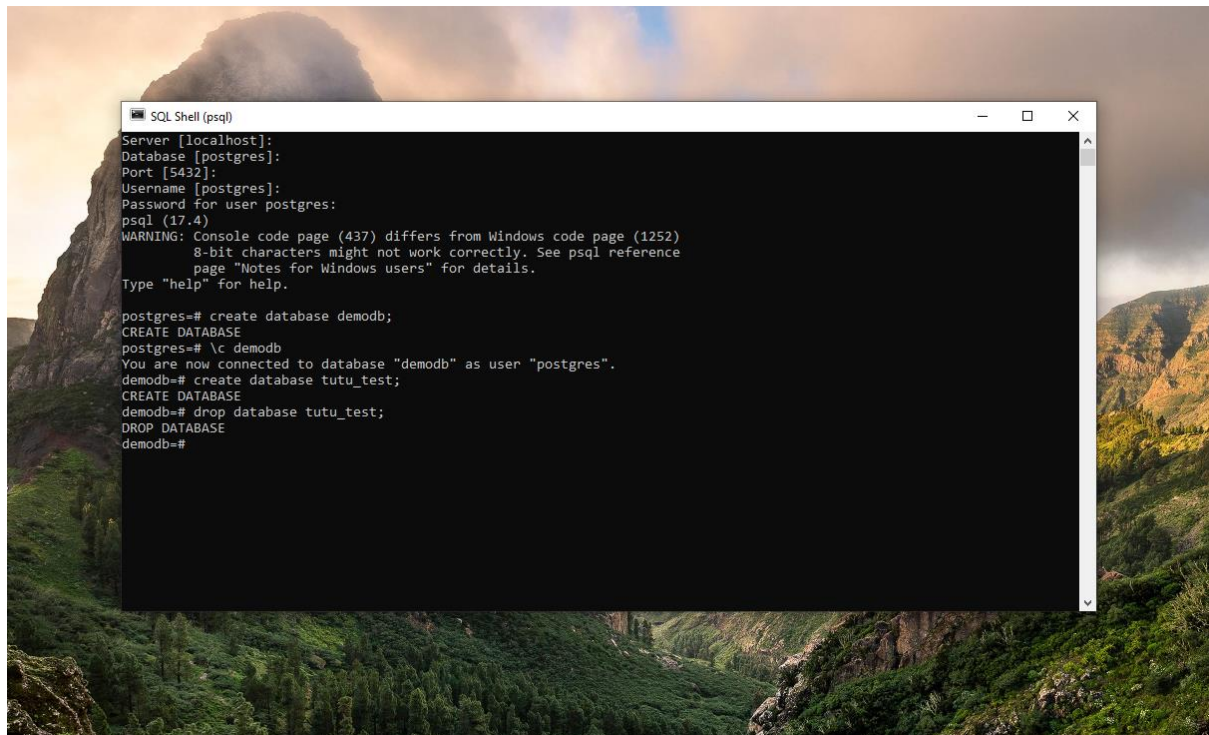
Installed PostgreSQL



Database creation



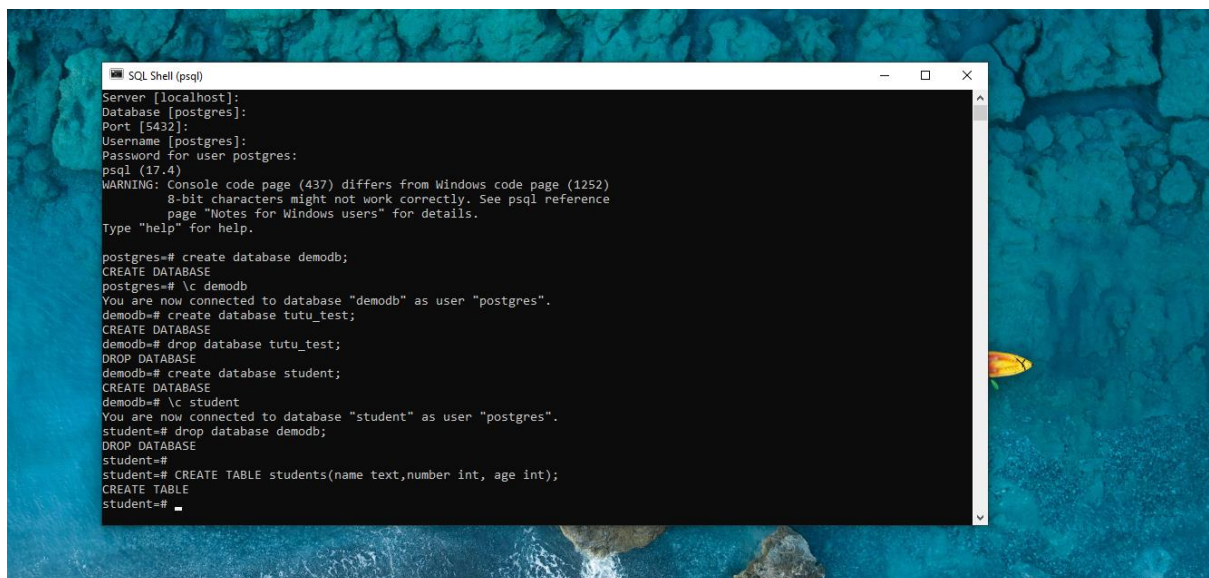
Drop database



```
SQL Shell (psql)
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:
psql (17.4)
WARNING: Console code page (437) differs from Windows code page (1252)
        8-bit characters might not work correctly. See psql reference
        page "Notes for Windows users" for details.
Type "help" for help.

postgres=# create database demodb;
CREATE DATABASE
postgres=# \c demodb
You are now connected to database "demodb" as user "postgres".
demodb=# create database tutu_test;
CREATE DATABASE
demodb=# drop database tutu_test;
DROP DATABASE
demodb=#
```

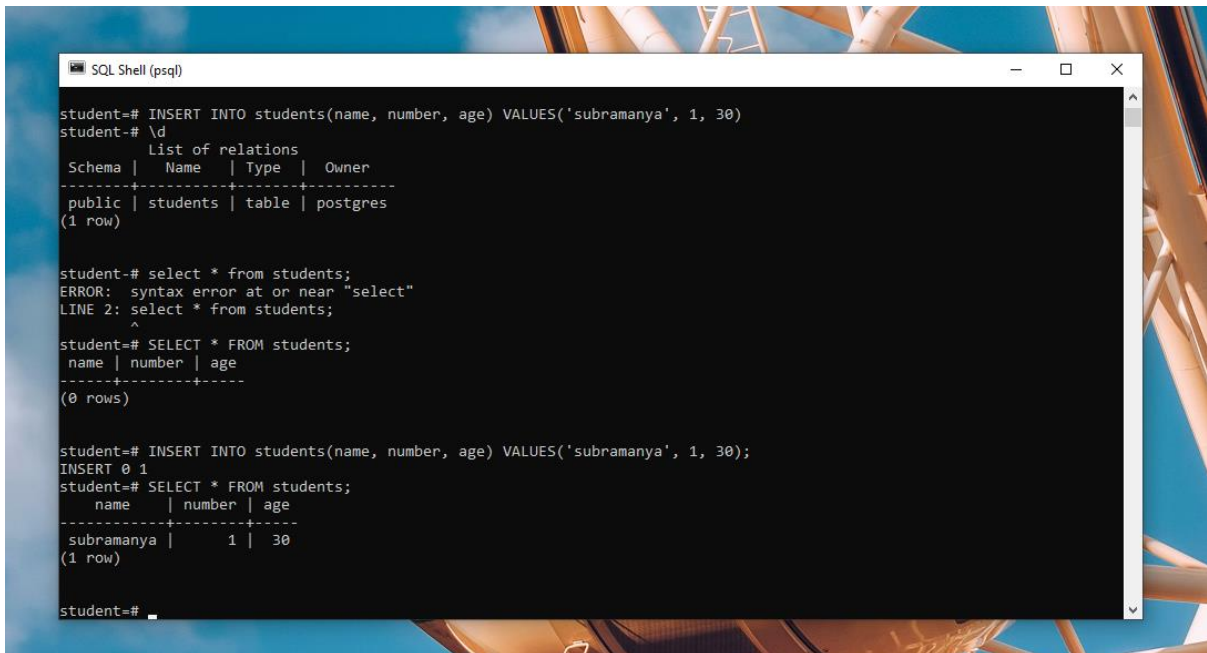
Create table



```
SQL Shell (psql)
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:
psql (17.4)
WARNING: Console code page (437) differs from Windows code page (1252)
        8-bit characters might not work correctly. See psql reference
        page "Notes for Windows users" for details.
Type "help" for help.

postgres=# create database demodb;
CREATE DATABASE
postgres=# \c demodb
You are now connected to database "demodb" as user "postgres".
demodb=# create database tutu_test;
CREATE DATABASE
demodb=# drop database tutu_test;
DROP DATABASE
demodb=# create database student;
CREATE DATABASE
demodb=# \c student
You are now connected to database "student" as user "postgres".
student=# drop database demodb;
DROP DATABASE
student=#
student=# CREATE TABLE students(name text,number int, age int);
CREATE TABLE
student=#
```

Adding data



```
SQL Shell (psql)

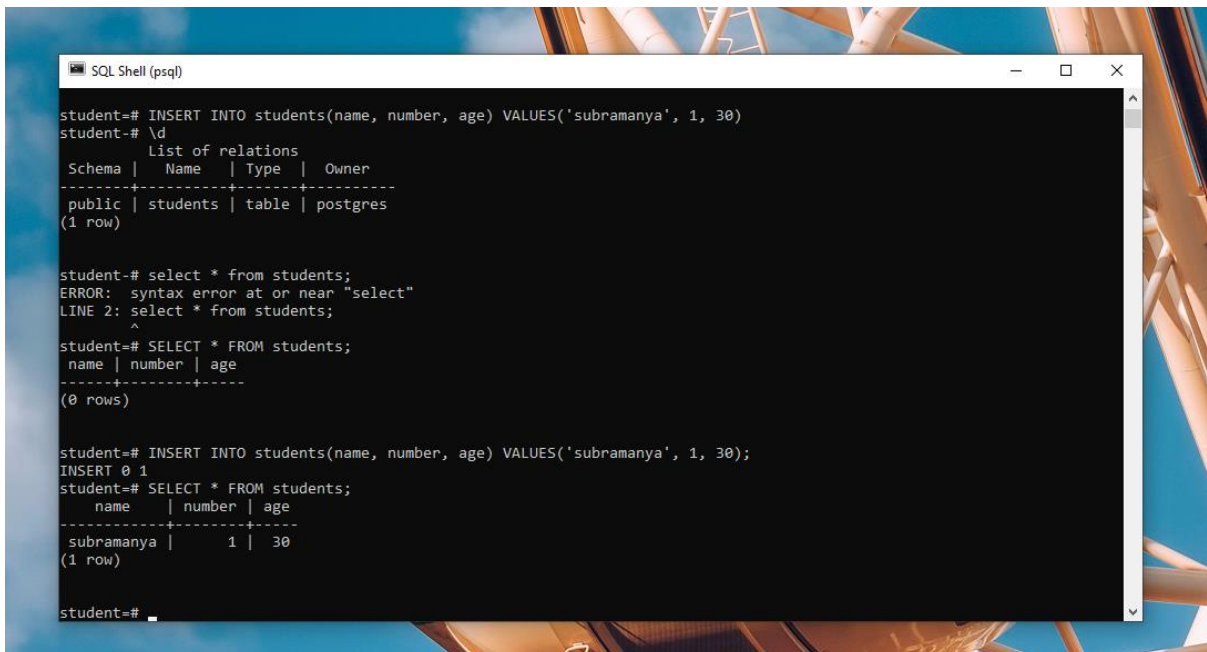
student=# INSERT INTO students(name, number, age) VALUES('subramanya', 1, 30)
student=# \d
          List of relations
  Schema | Name   | Type  | Owner
-----+-----+-----+-----
 public | students | table | postgres
(1 row)

student=# select * from students;
ERROR:  syntax error at or near "select"
LINE 2: select * from students;
        ^
student=# SELECT * FROM students;
 name | number | age
-----+-----+-----
(0 rows)

student=# INSERT INTO students(name, number, age) VALUES('subramanya', 1, 30);
INSERT 0 1
student=# SELECT * FROM students;
 name | number | age
-----+-----+-----
subramanya |      1 |   30
(1 row)

student=#
```

Truncate table



```
SQL Shell (psql)

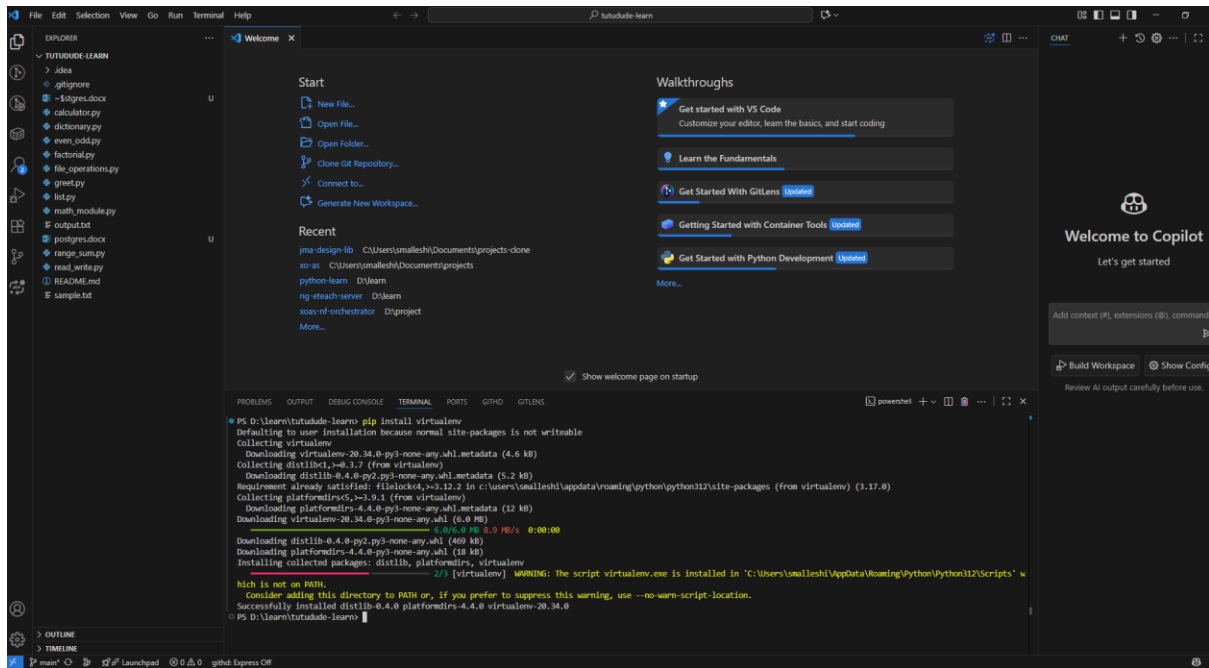
student=# INSERT INTO students(name, number, age) VALUES('subramanya', 1, 30)
student=# \d
          List of relations
  Schema | Name   | Type  | Owner
-----+-----+-----+-----
 public | students | table | postgres
(1 row)

student=# select * from students;
ERROR:  syntax error at or near "select"
LINE 2: select * from students;
        ^
student=# SELECT * FROM students;
 name | number | age
-----+-----+-----
(0 rows)

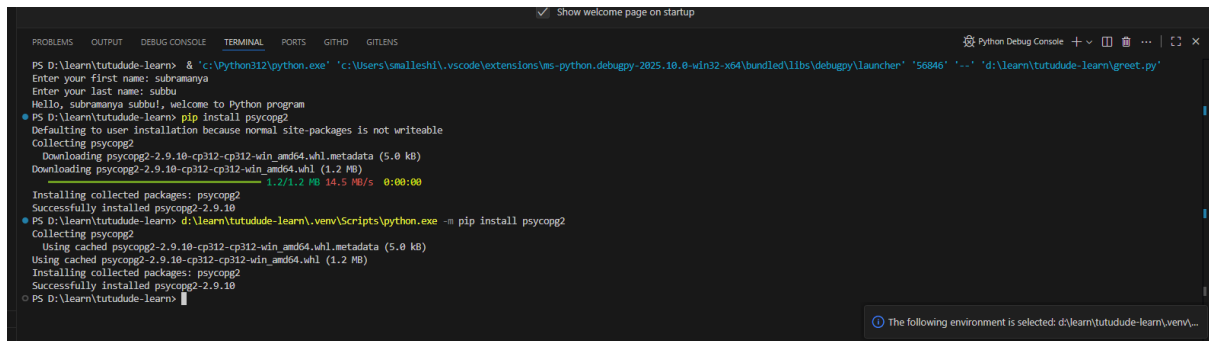
student=# INSERT INTO students(name, number, age) VALUES('subramanya', 1, 30);
INSERT 0 1
student=# SELECT * FROM students;
 name | number | age
-----+-----+-----
subramanya |      1 |   30
(1 row)

student=#
```

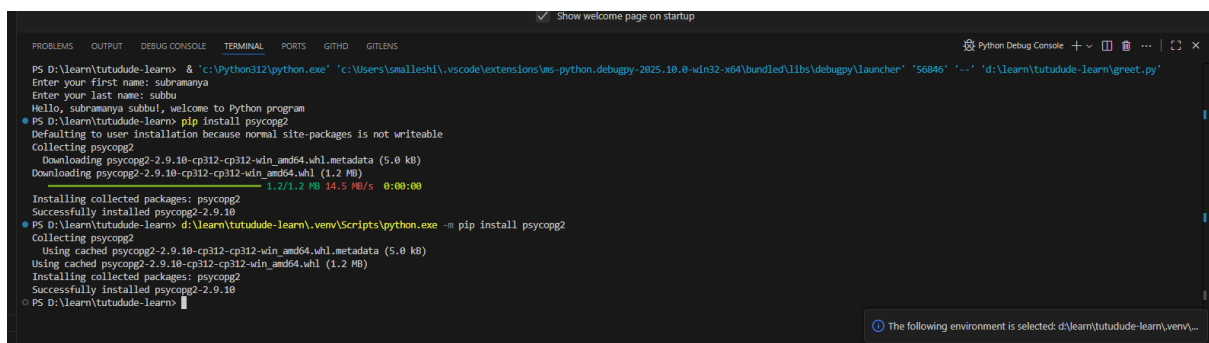

Virtual environment



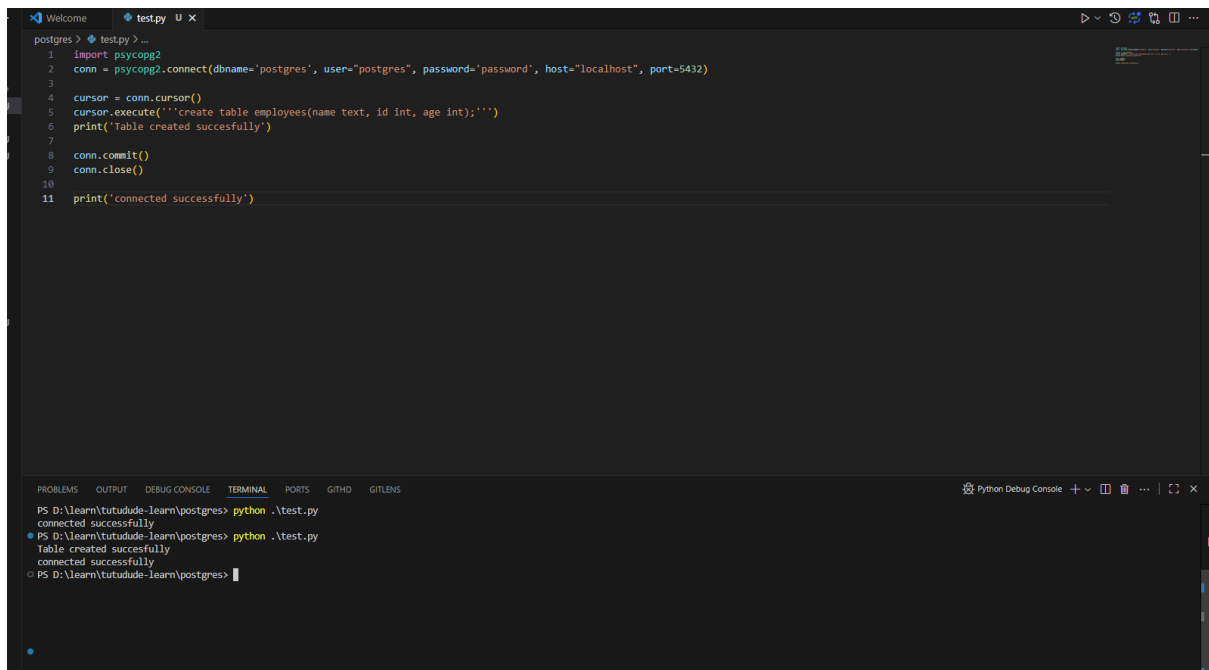
Psycopg2 installation



Database connect



Psycopg2, table creation

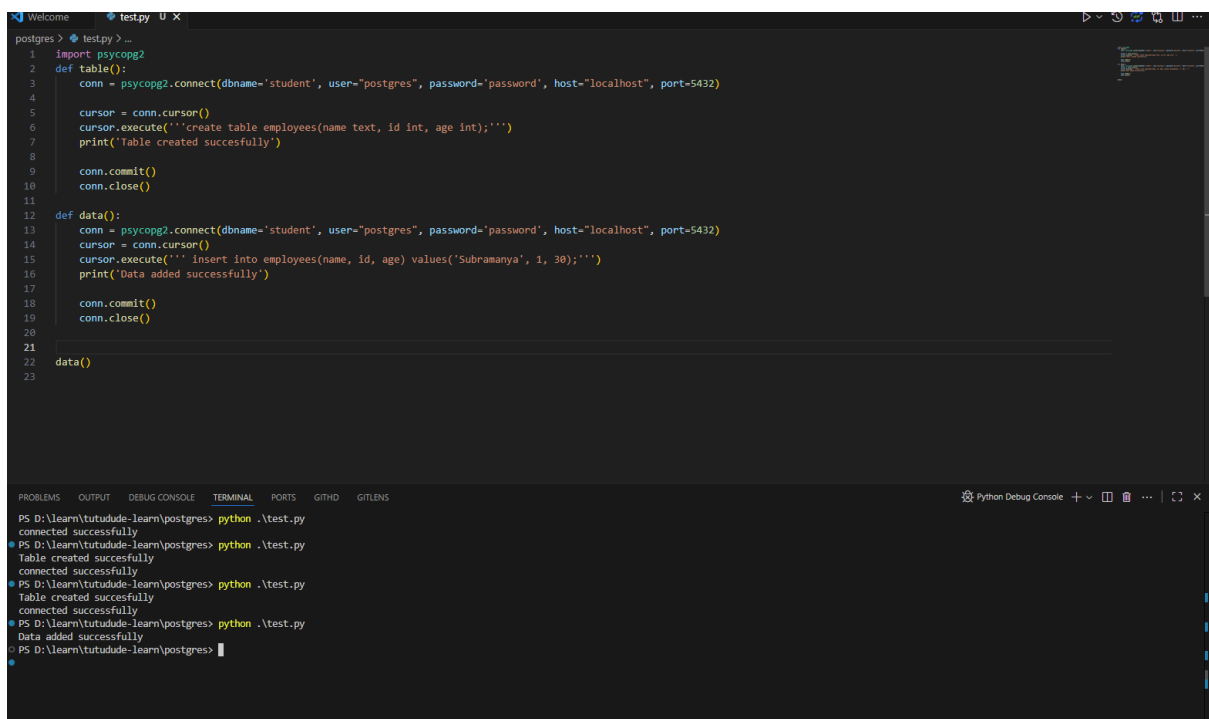


```
1 import psycopg2
2 conn = psycopg2.connect(dbname='postgres', user='postgres', password='password', host='localhost', port=5432)
3
4 cursor = conn.cursor()
5 cursor.execute('create table employees(name text, id int, age int);')
6 print('Table created successfully')
7
8 conn.commit()
9 conn.close()
10
11 print('connected successfully')
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITHD GITLENS

PS D:\learn\tutudude-learn\postgres> python .\test.py
connected successfully
PS D:\learn\tutudude-learn\postgres> python .\test.py
Table created successfully
connected successfully
PS D:\learn\tutudude-learn\postgres>

Insert data



```
1 import psycopg2
2 def table():
3     conn = psycopg2.connect(dbname='student', user='postgres', password='password', host='localhost', port=5432)
4
5     cursor = conn.cursor()
6     cursor.execute('create table employees(name text, id int, age int);')
7     print('Table created successfully')
8
9     conn.commit()
10    conn.close()
11
12 def data():
13     conn = psycopg2.connect(dbname='student', user='postgres', password='password', host='localhost', port=5432)
14     cursor = conn.cursor()
15     cursor.execute('insert into employees(name, id, age) values('Subramanya', 1, 30);')
16     print('Data added successfully')
17
18     conn.commit()
19     conn.close()
20
21 data()
22
23
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITHD GITLENS

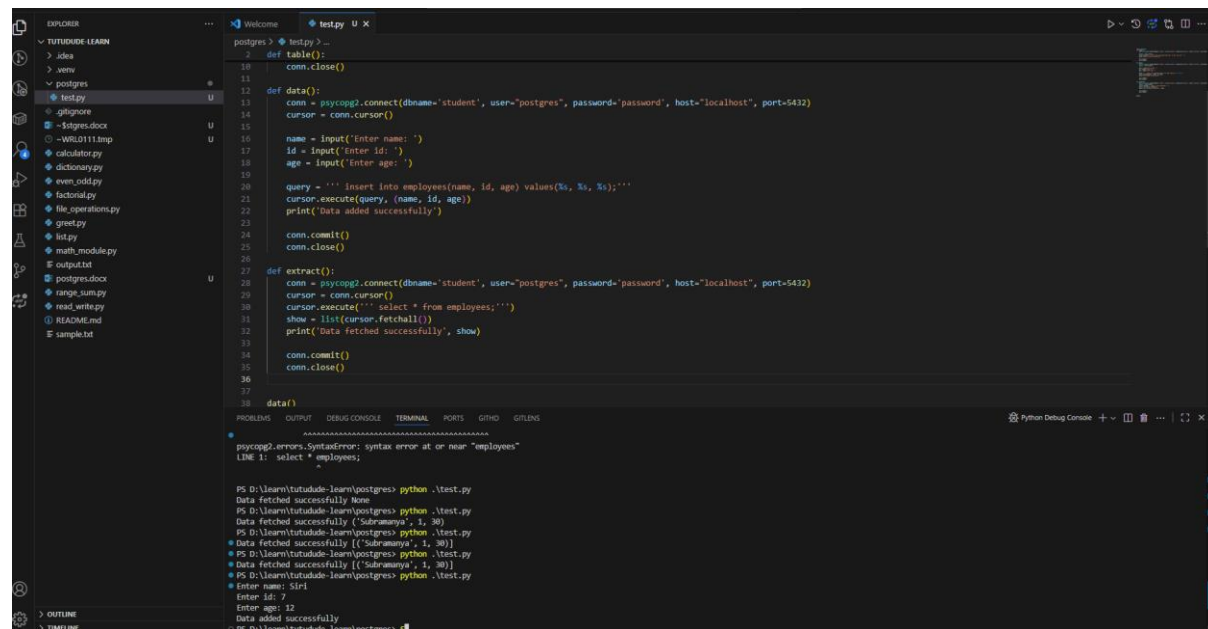
PS D:\learn\tutudude-learn\postgres> python .\test.py
connected successfully
PS D:\learn\tutudude-learn\postgres> python .\test.py
Table created successfully
connected successfully
PS D:\learn\tutudude-learn\postgres> python .\test.py
Table created successfully
connected successfully
PS D:\learn\tutudude-learn\postgres> python .\test.py
Data added successfully
PS D:\learn\tutudude-learn\postgres>

In the table

```
student=# \c
You are now connected to database "student" as user "postgres".
student=# \c student
You are now connected to database "student" as user "postgres".
student=# \d
          List of relations
Schema |   Name   | Type | Owner
-----+-----+-----+-----
public | employees| table| postgres
public | students | table| postgres
(2 rows)

student=# select * from employees;
   name   | id | age
-----+---+---
Subramanya |  1 |  30
(1 row)
```

Data input from user



```
postgres> test.py -
10 def table():
11     conn.close()
12
13 def data():
14     conn = psycopg2.connect(dbname='student', user='postgres', password='password', host='localhost', port=5432)
15     cursor = conn.cursor()
16     name = input('Enter name: ')
17     id = input('Enter id: ')
18     age = input('Enter age: ')
19
20     query = ''' insert into employees(name, id, age) values(%s, %s, %s);'''
21     cursor.execute(query, (name, id, age))
22     print('Data added successfully')
23
24     conn.commit()
25     conn.close()
26
27 def extract():
28     conn = psycopg2.connect(dbname='student', user='postgres', password='password', host='localhost', port=5432)
29     cursor = conn.cursor()
30     cursor.execute('''' select * from employees;''')
31     show = list(cursor.fetchall())
32     print('Data fetched successfully', show)
33
34     conn.commit()
35     conn.close()
36
37
38 data()
```

python .\test.py
Data fetched successfully None
PS D:\learn\tutudude-learn\postgres> python .\test.py
Data fetched successfully ('Subramanya', 1, 30)
PS D:\learn\tutudude-learn\postgres> python .\test.py
Data fetched successfully [('Subramanya', 1, 30)]
PS D:\learn\tutudude-learn\postgres> python .\test.py
Data fetched successfully [('Subramanya', 1, 30)]
PS D:\learn\tutudude-learn\postgres> python .\test.py
Enter name: Sri
Enter id: 7
Enter age: 12
Data added successfully
PS D:\learn\tutudude-learn\postgres>