**Assignment -2**

**Flask Assignment**

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| --- | --- |
| Student Name | Gokul Raam M |
| Student Roll Number | 7179KCTKCTKCTKCTKCTKCTKCT19BCS026 |

1. 1. Create User table with user with email, username, roll number, password.

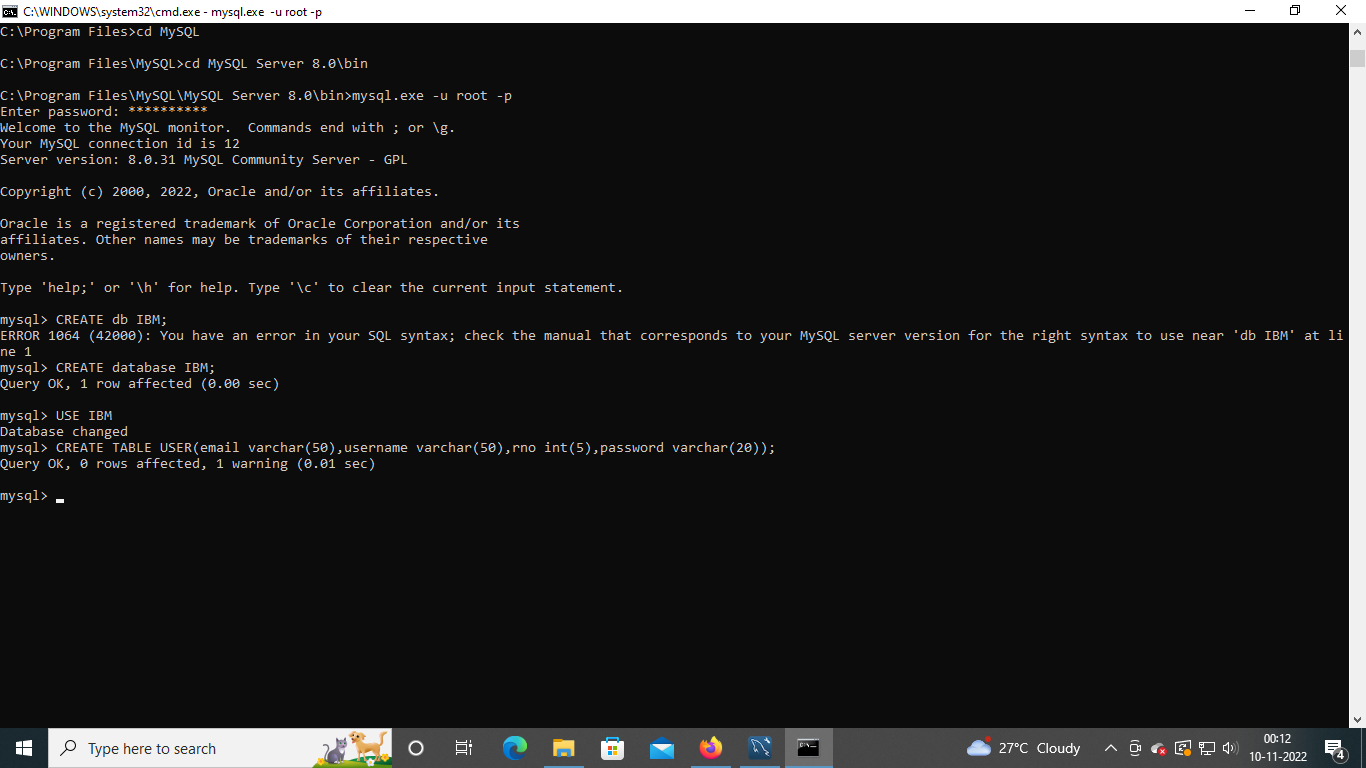
**SQL query:**

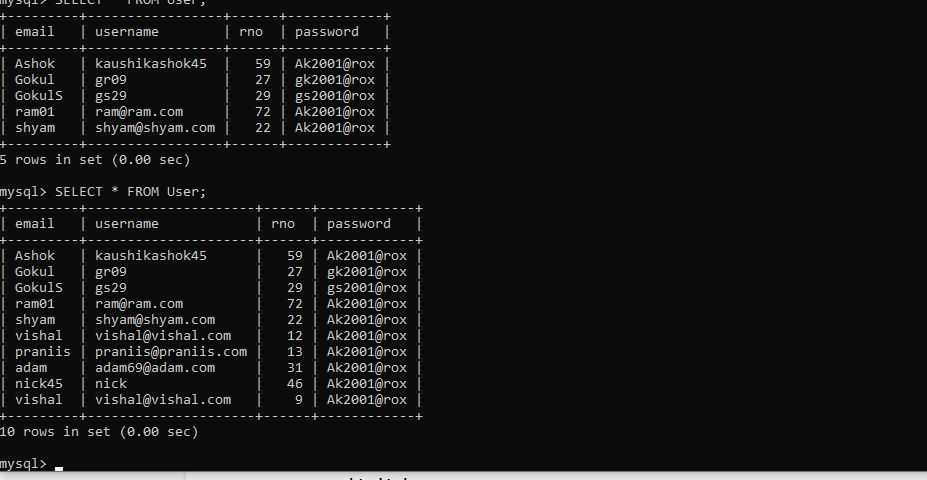
CREATE database IBM

USE IBM

CREATE TABLE User(email varchar(50),username varchar(50),rno integer(5),password varchar(20));

**OUTPUT:**

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****

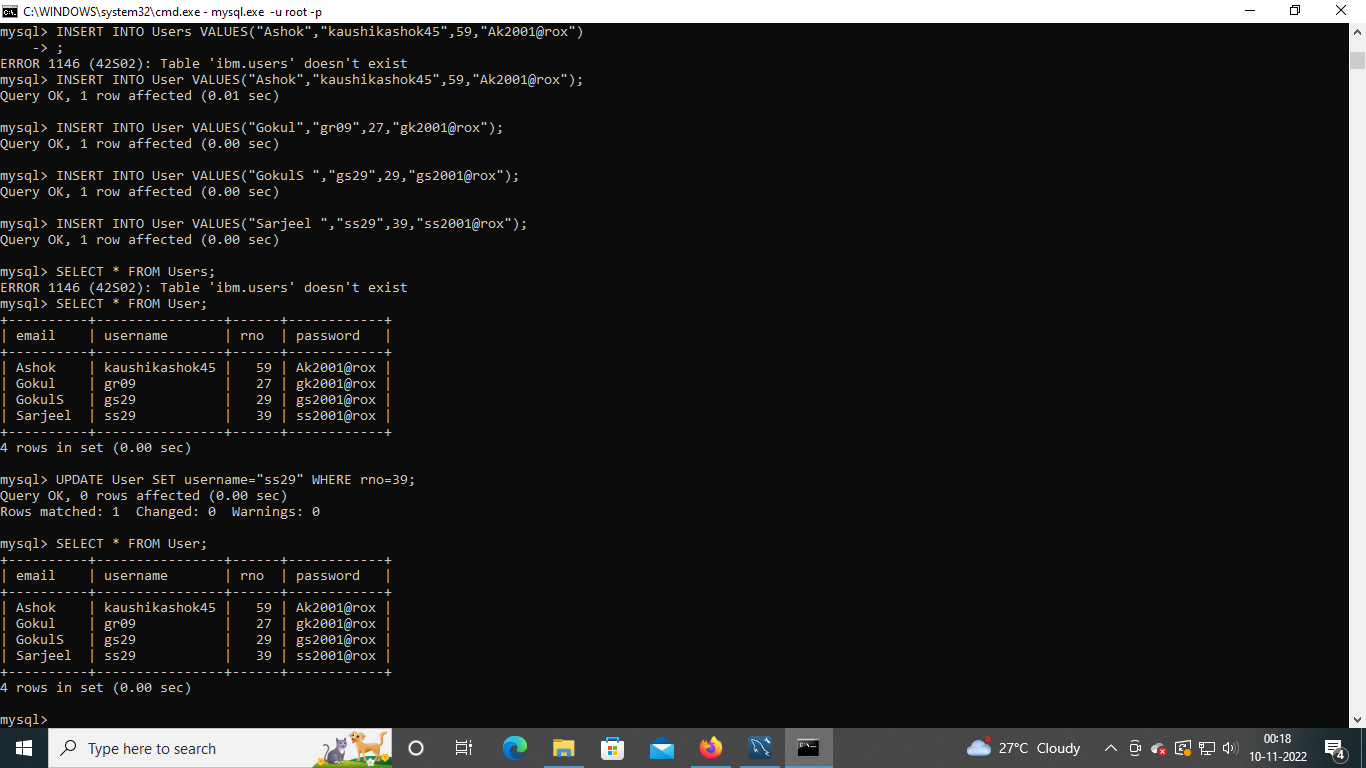
**2. Perform UPDATE,DELETE Queries with user table**

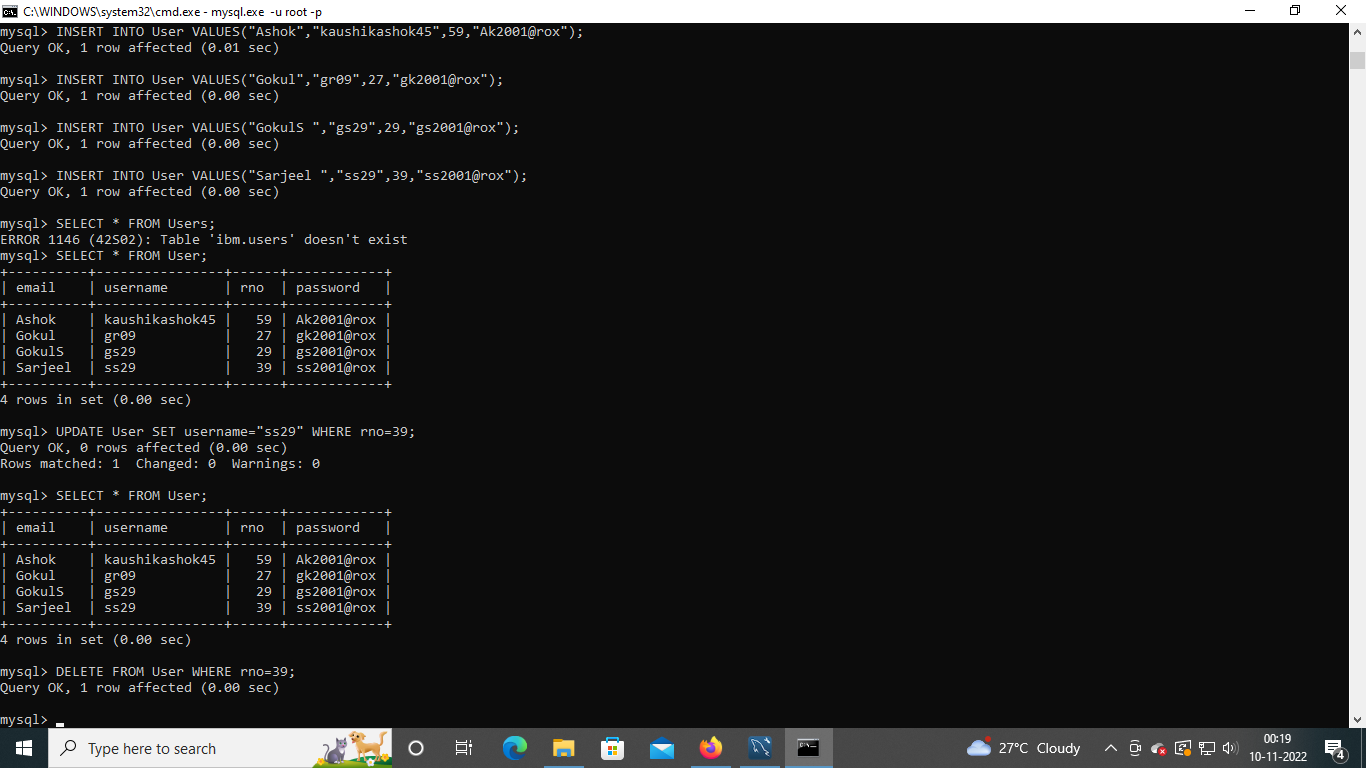
**SQL Query:**

UPDATE Users SET username=”ss29” WHERE rno=39;

DELETE FROM User WHERE rno=39;

**OUTPUT:**





**3. Connect python code to db2.**

**connecting python to sql**

**app.py**

from flask import Flask, render\_template, request, redirect, url\_for, session

from flask\_mysqldb import MySQL

import MySQLdb.cursors

app = Flask(\_\_name\_\_)

app.secret\_key = 'Ak2001@rox'

app.config['MYSQL\_HOST'] = 'localhost'

app.config['MYSQL\_USER'] = 'root'

app.config['MYSQL\_PASSWORD'] = 'Ak2001@rox'

app.config['MYSQL\_DB'] = 'IBM'

mysql = MySQL(app)

@app.route('/', methods=['GET', 'POST'])

def index():

if request.method == "POST":

details = request.form

username = details['username']

email = details['email']

password=details['password']

rno=details['rno']

cur = mysql.connection.cursor()

cur.execute("INSERT INTO User(email,username,rno,password) VALUES (%s, %s,%s,%s)", (username,email,rno,password))

mysql.connection.commit()

cur.close()

msg="registered successfully"

return render\_template('login.html',msg=msg)

return render\_template('index.html')

@app.route('/')

@app.route('/welcome', methods =['GET', 'POST'])

def welcome():

msg = 'logged in successfully'

return render\_template('welcome.html', msg = msg)

@app.route('/login', methods =['GET', 'POST'])

def login():

msg = ''

if request.method == 'POST' and 'username' in request.form and 'password' in request.form:

username = request.form['username']

password = request.form['password']

cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)

cursor.execute('SELECT \* FROM User WHERE username = % s AND password = % s', (username, password, ))

account = cursor.fetchone()

if account:

session['loggedin'] = True

session['id'] = account['rno']

session['username'] = account['username']

msg = 'Logged in successfully !'

return render\_template('welcome.html', msg = msg)

else:

msg = 'Incorrect username / password !'

return render\_template('login.html', msg = msg)

@app.route('/logout')

def logout():

session.pop('loggedin', None)

session.pop('id', None)

session.pop('username', None)

return redirect(url\_for('login'))

if \_\_name\_\_ == '\_\_main\_\_':

app.run()

register.html

<html>

<head>

<title>Registration Page </title>

</head>

<body>

<form action="http://127.0.0.1:5000//register" method="POST">

<h1> Registration Form </h1>

<p> Enter your name : <input type="text" name="name"/></p>

<p> Enter your mail id: <input type="email" name="mail"/></p>

<p> Enter your phone number:<input type="number" name="phone"/></p>

<p> <input type="submit" value="submit"></p>

</form>

</body>

</html>

app.py

from flask import Flask,redirect,url\_for,request

app=Flask(\_\_name\_\_)

@app.route('/success/<string:name>/<string:mail>/<string:phone>')

def success(name,mail,phone):

return "Name: " + name +" <br> Mail ID: "+mail+" <br> Phone number: "+phone

@app.route('/register',methods=['POST'])

def register():

if request.method=='POST':

user=request.form['name']

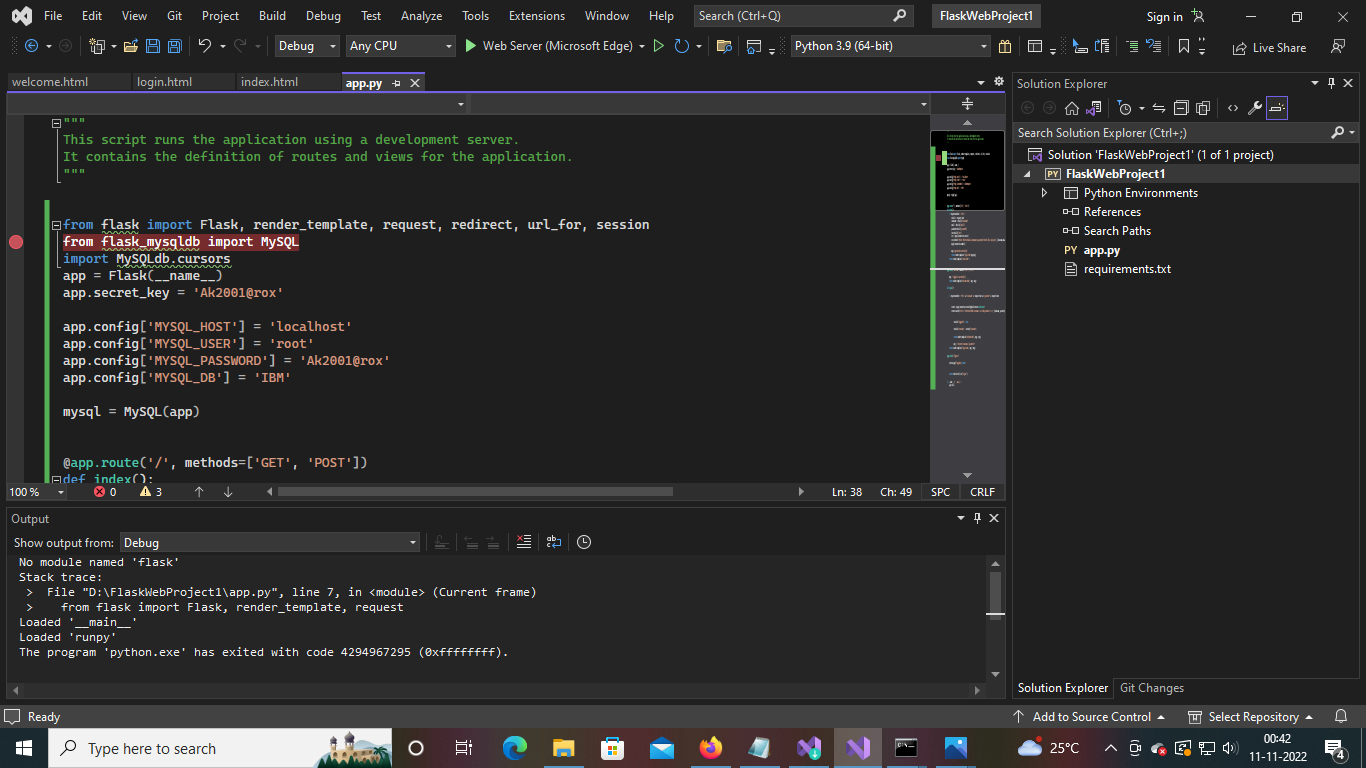
mailid=request.form['mail']

phonum=request.form['phone']

return redirect(url\_for('success',name=user,mail=mailid,phone=phonum))

if \_\_name\_\_=='\_\_main\_\_':

app.run(debug=True)



**4. Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page**

**index.html(for registration):**

**<HTML>**

<BODY bgcolor="cyan">

<form method="POST" action="">

<center>

<H1>Enter your details </H1> <br>

Username <input type="text" name="username" /> <br>

Email <input type="text" name="email" /> <br>

Roll no <input type="number" name="rno" /> <br>

Password <input type="text" name="password" /> <br>

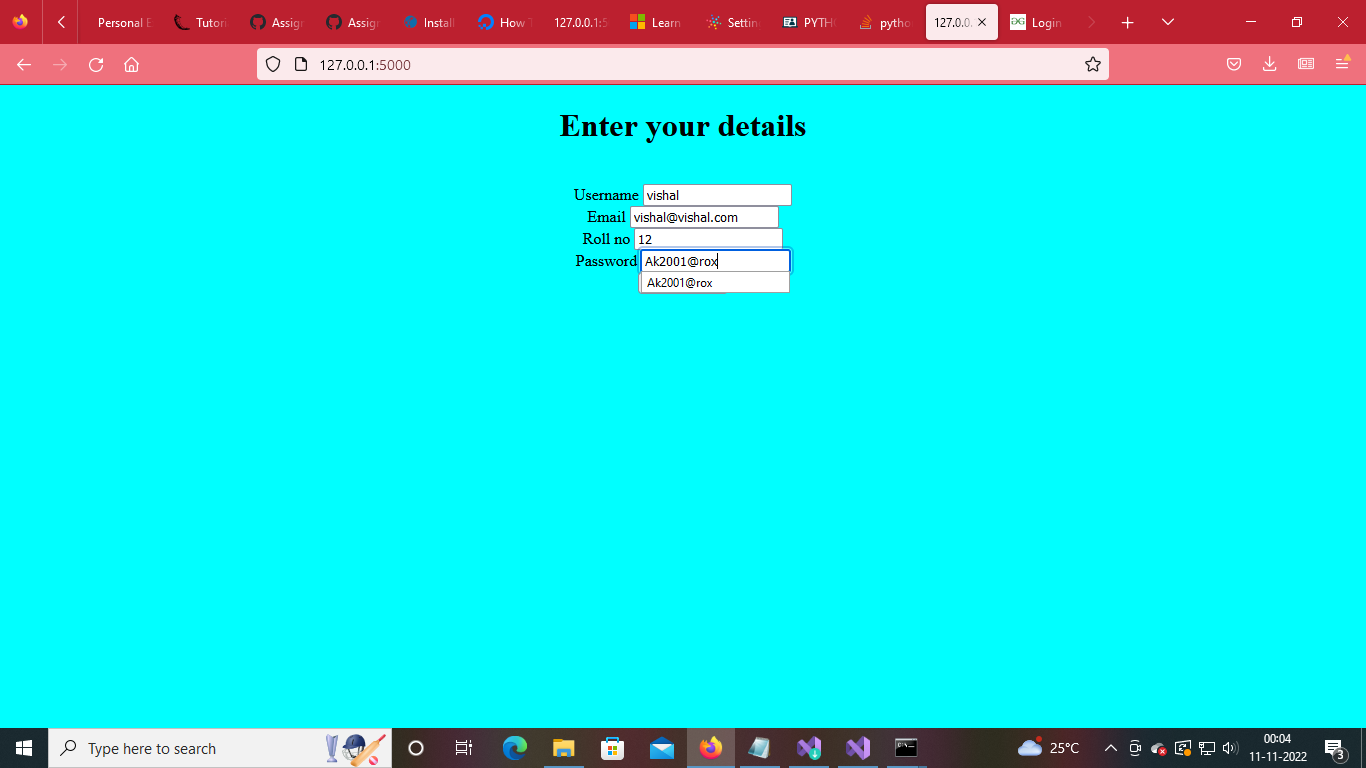
<input type="submit">

</center>

</form>

</BODY>

</HTML>



**login.html(for login):**

<html>

<head>

<meta charset="UTF-8">

<title> Login </title>

<link rel="stylesheet" href="{{ url\_for('static', filename='style.css') }}">

</head>

<body>

</br></br></br></br></br>

<div align="center">

<div align="center" class="border">

<div class="header">

<h1 class="word">Login</h1>

</div></br></br></br>

<h2 class="word">

<form action="{{ url\_for('login') }}" method="post">

<div class="msg">{{ msg }}</div>

<input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox" /></br></br>

<input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox" /></br></br></br>

<input type="submit" class="btn" value="Sign In"></br></br>

</form>

</h2>

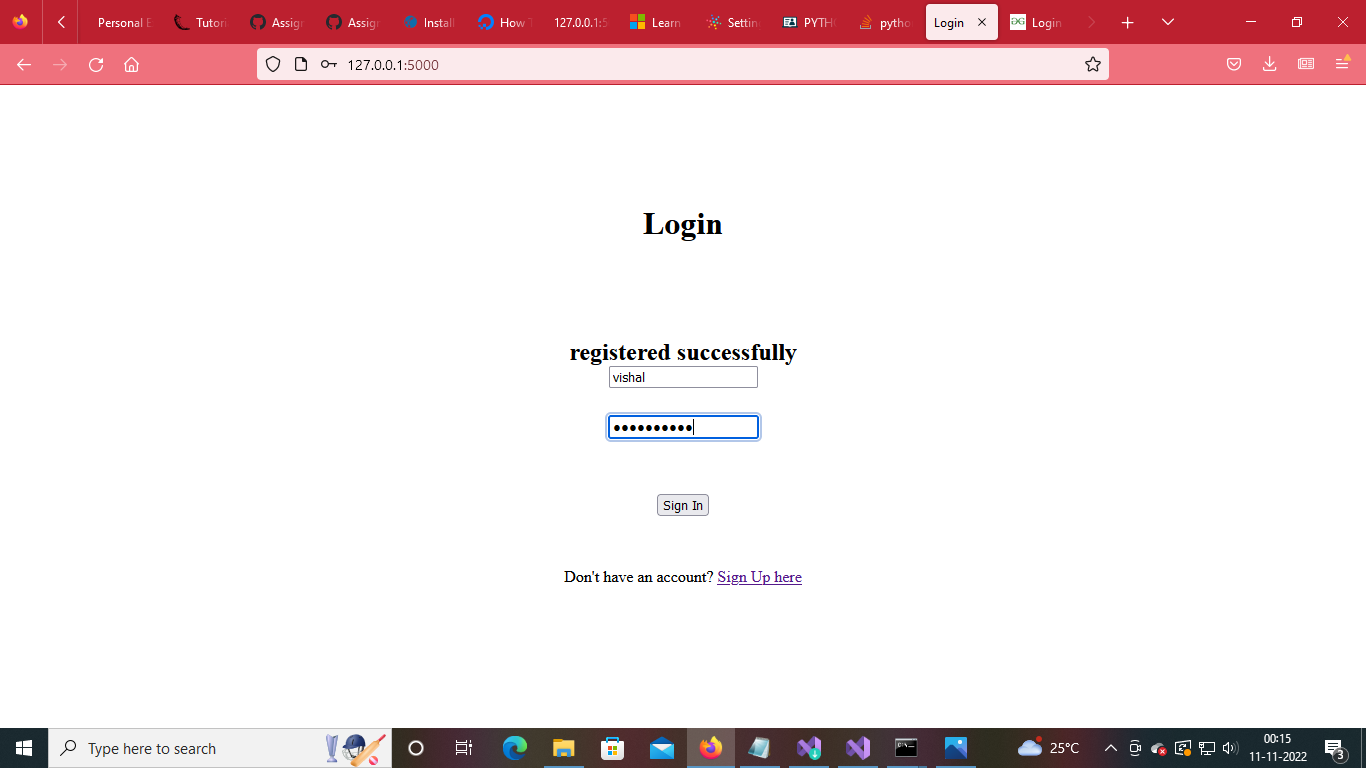
<p class="bottom">Don't have an account? <a class="bottom" href="{{url\_for('index')}}"> Sign Up here</a></p>

</div>

</div>

</body>

</html>



**welcome.html(welcome page):**

**<!DOCTYPE html>**

<html lang="en" xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<title>Welcome {{session.username}}</title>

</head>

<body>

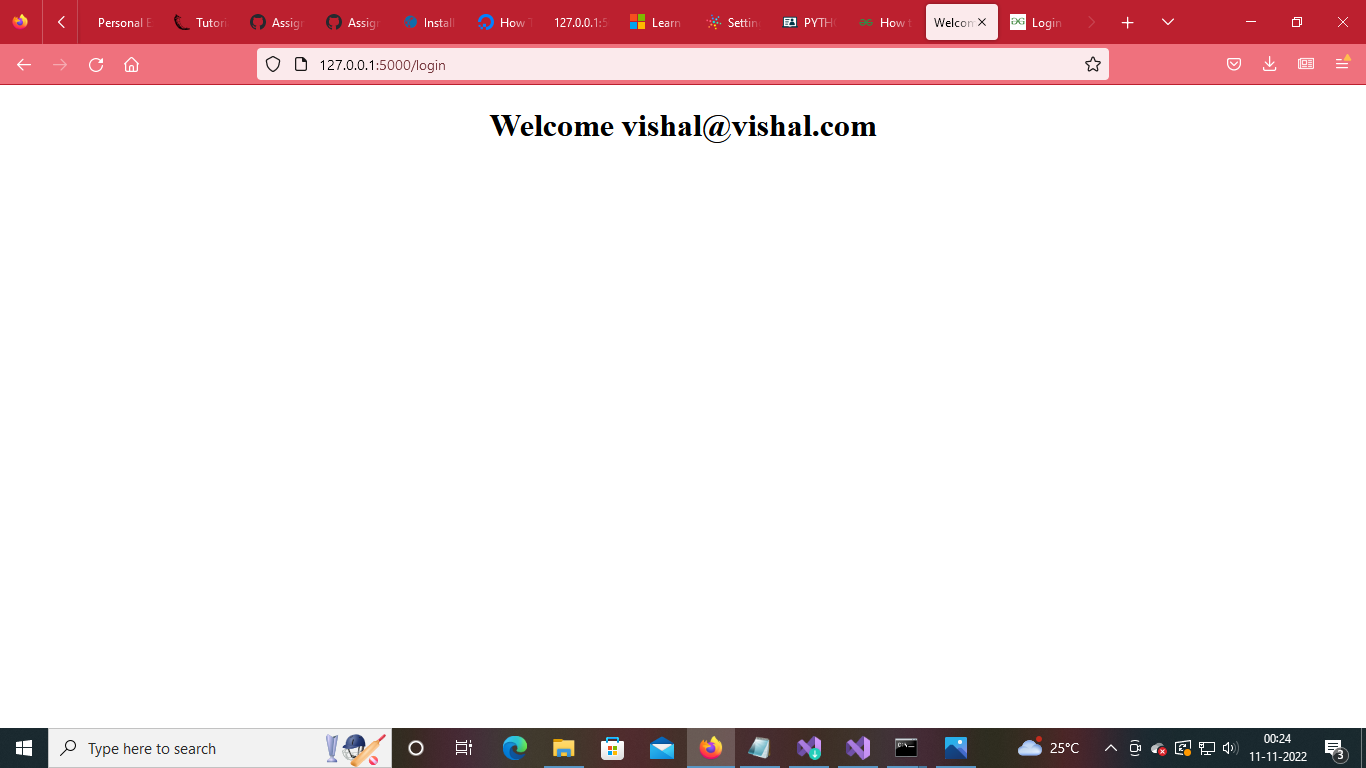
<center>

<H1>Welcome {{session.username}}</H1>

</center>

</body>

</html>

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