ASSIGNMENT DATE	22 OCTOBER 2022
STUDENT NAME	NARMATHA.B
STUDENT ROLL NUMBER	950019104032
MAXIMUM MARKS	2 MARKS
TEAM ID	PNT2022TMID49592

ASSIGNMENT 2

1.CREATE USER TABLE WITH USERNAME,ROLLNUMBER,EMAIL,PASSWORD

QUERY:

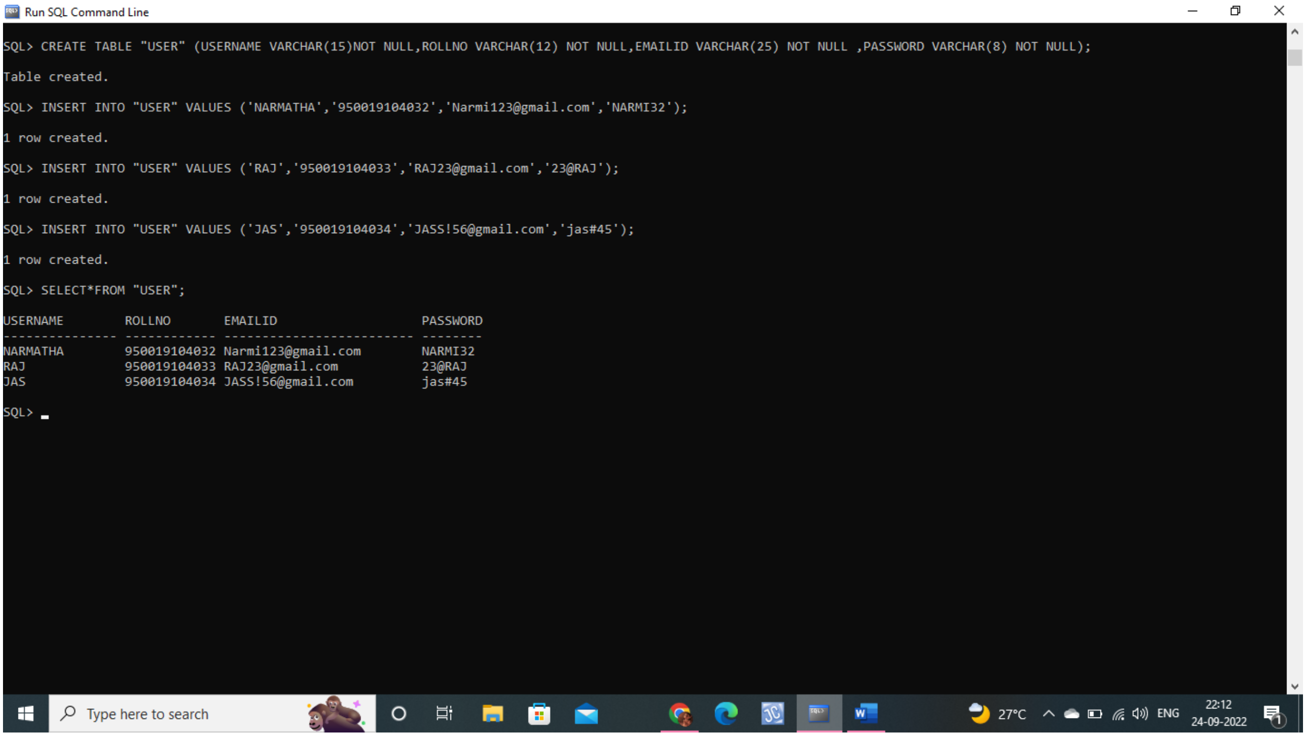
CREATE TABLE "USER" (USERNAME VARCHAR(15)NOT NULL,ROLLNO VARCHAR(12) NOT NULL,EMAILID VARCHAR(25) NOT NULL ,PASSWORD VARCHAR(8) NOT NULL);

INSERT INTO "USER" VALUES ('NARMATHA','950019104032','Narmi123@gmail.com','NARMI32');

INSERT INTO "USER" VALUES ('RAJ','950019104033','RAJ23@gmail.com','23@RAJ');

INSERT INTO "USER" VALUES ('JAS','950019104034','JASS!56@gmail.com','jas#45');

OUTPUT:



```
SQL> CREATE TABLE "USER" (USERNAME VARCHAR(15)NOT NULL,ROLLNO VARCHAR(12) NOT NULL,EMAILID VARCHAR(25) NOT NULL ,PASSWORD VARCHAR(8) NOT NULL);

Table created.

SQL> INSERT INTO "USER" VALUES ('NARMATHA','950019104032','Narmi123@gmail.com','NARMI32');

1 row created.

SQL> INSERT INTO "USER" VALUES ('RAJ','950019104033','RAJ23@gmail.com','23@RAJ');

1 row created.

SQL> INSERT INTO "USER" VALUES ('JAS','950019104034','JASS!56@gmail.com','jas#45');

1 row created.

SQL> SELECT*FROM "USER";

USERNAME        ROLLNO       EMAILID                   PASSWORD
--------------- ------------ ------------------------- --------
NARMATHA        950019104032 Narmi123@gmail.com        NARMI32
RAJ             950019104033 RAJ23@gmail.com           23@RAJ
JAS             950019104034 JASS!56@gmail.com         jas#45

SQL> _
```

2. PERFORM UPDATE AND DELETE QUERIES WITH USER TABLE

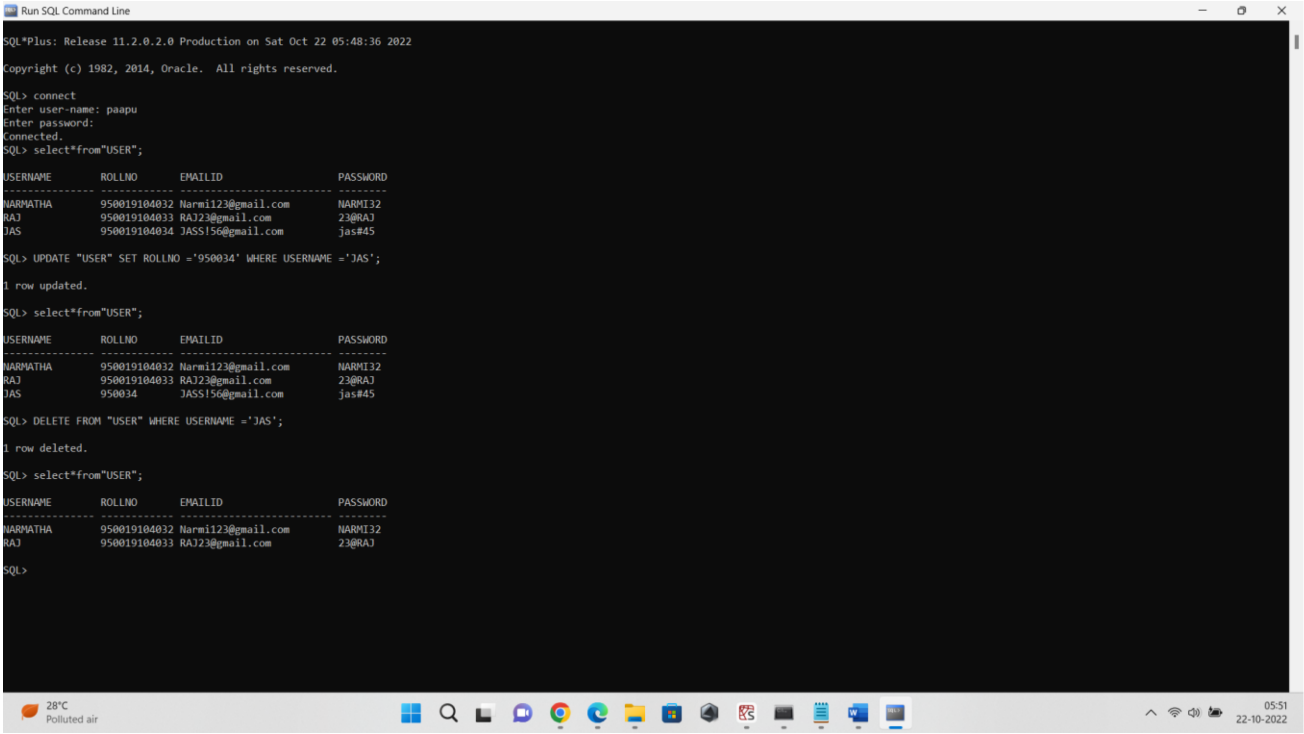
UPDATE QUERY:

UPDATE "USER" SET ROLLNO ='950034' WHERE USERNAME ='JAS';

DELETE QUERY:

DELETE FROM "USER" WHERE USERNAME ='JAS';

OUTPUT:



```
SQL*Plus: Release 11.2.0.2.0 Production on Sat Oct 22 05:48:36 2022

Copyright (c) 1982, 2014, Oracle.  All rights reserved.

SQL> connect
Enter user-name: paapu
Enter password:
Connected.
SQL> select*from"USER";

USERNAME        ROLLNO       EMAILID                   PASSWORD
--------------- ------------ ------------------------- --------
NARMATHA        950019104032 Narmi123@gmail.com        NARMI32
RAJ             950019104033 RAJ23@gmail.com           23@RAJ
JAS             950019104034 JASS!56@gmail.com         jas#45

SQL> UPDATE "USER" SET ROLLNO ='950034' WHERE USERNAME ='JAS';

1 row updated.

SQL> select*from"USER";

USERNAME        ROLLNO       EMAILID                   PASSWORD
--------------- ------------ ------------------------- --------
NARMATHA        950019104032 Narmi123@gmail.com        NARMI32
RAJ             950019104033 RAJ23@gmail.com           23@RAJ
JAS             950034       JASS!56@gmail.com         jas#45

SQL> DELETE FROM "USER" WHERE USERNAME ='JAS';

1 row deleted.

SQL> select*from"USER";

USERNAME        ROLLNO       EMAILID                   PASSWORD
--------------- ------------ ------------------------- --------
NARMATHA        950019104032 Narmi123@gmail.com        NARMI32
RAJ             950019104033 RAJ23@gmail.com           23@RAJ

SQL>
```

3.CONNECT PYTHON CODE TO DB2

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=32286;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=jmf44160;PWD=xFr122zRwL6A9eJP","","")

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.

BASE.HTML:

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
<style>
a:visited {
  color: #663333;
  background-color: transparent;
  text-decoration: none;
}
</style>
     {% block head %} {% endblock %}
     <!-- <link rel="stylesheet" href="static/css/style.css"> -->
     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT"
crossorigin="anonymous">
     <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOOmMi466C8"
crossorigin="anonymous"></script>
</head>
<body>
    <a href="/register"><center><i><h4>REGISTER</h4></i></center></a>&nbsp
    <a href="/login"><center><i><h4>LOGIN</h4></i><?center></a>&nbsp
   <hr><br>
    <div class="container">
     {% block body %} {% endblock %}
 </div>
</body>
</html>
```

INDEX.HTML:

```
{% extends 'base.html' %}
{% block head %}
 <title>Home Page</title>
<style>
body {
  background-image: url('https://i.pinimg.com/originals/cc/d7/b5/ccd7b515d2018509d9d3acf0cfd65d05.jpg'); background-repeat: no-repeat; background-size: cover;}
</style>
{% endblock %}
{% block body %}
 <h1><CENTER><b>HELLO</b></CENTER></h1>
 <h2><CENTER><p>WELCOME TO MY WEBSITE</p></CENTER></h2>
 <h2><CENTER><p>THIS IS NARMATHA</p></CENTER></h2>
 <hr><br>
{% endblock %}
```

LOGIN.HTML:

```
<html>
 <head>
 <meta charset="UTF-8">
 <title> Login </title>
<style>
body {
  background-image: url('https://i.pinimg.com/originals/cc/d7/b5/ccd7b515d2018509d9d3acf0cfd65d05.jpg'); background-repeat: no-repeat;  background-position: center;background-size: cover;}
</style>
 </head>
 <body ></br></br></br></br></br>
<table align="center" height="500" width="400" bgcolor="#C4ACAC">
<tr ><td>
```

```
 <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('register')}}"> Sign Up here</a></p>
 </div>
 </div>
</td>
</tr>
</table>
 </body>
</html>
```

REGISTER.HTML:

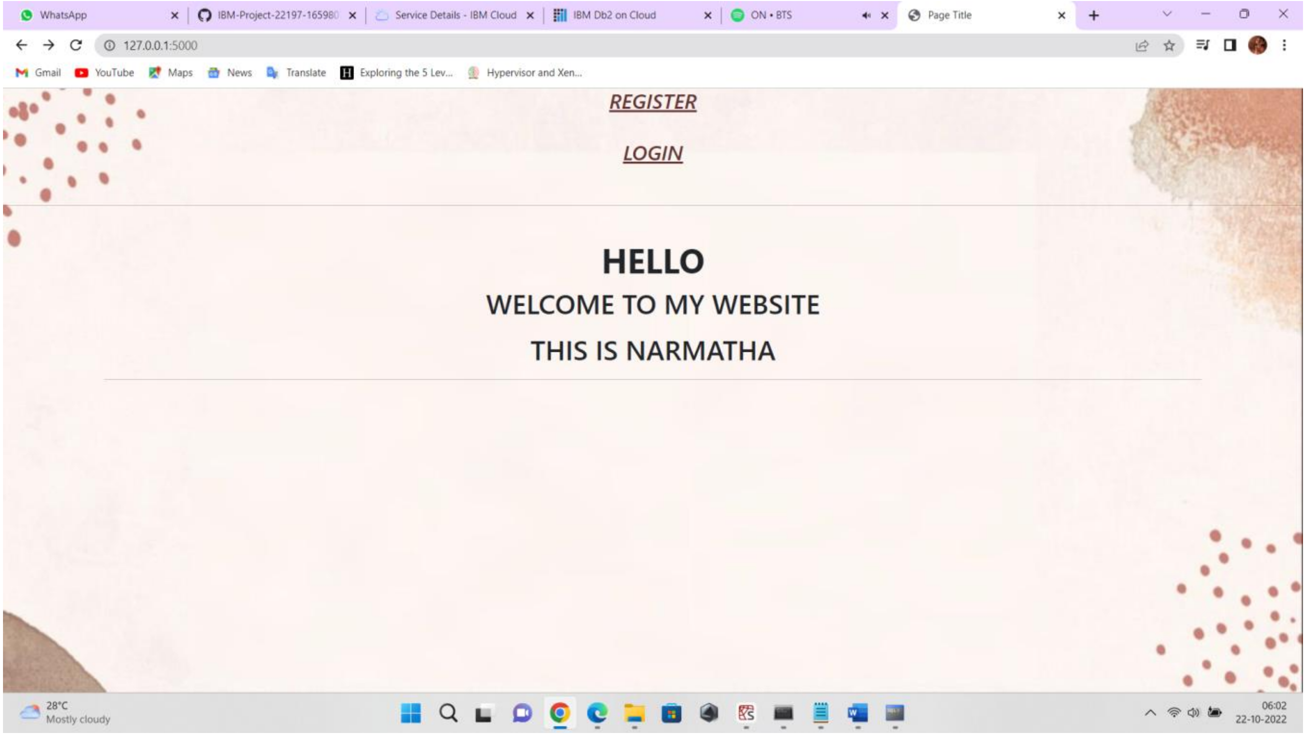
```
<html>
 <head>
 <meta charset="UTF-8">
 <title> Register </title>
<style>
body {background-image:
url('https://i.pinimg.com/originals/cc/d7/b5/ccd7b515d2018509d9d3acf0cfd65d05.jpg'); background-
repeat: no-repeat;  background-position: center;background-size: cover;}
```

```
</style>
 </head>
 <body></br></br></br></br></br>
<table align="center" height="500" width="400" bgcolor="#C4ACAC">
<tr ><td>
 <div align="center">
 <div align="center" class="border">
 <div class="header">
 <h1 class="word">Register</h1>
 </div></br></br></br>
 <h2 class="word">
 <form action="{{ url_for('register') }}" 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>
 <input id="email" name="email" type="text" placeholder="Enter Your Email ID"
class="textbox"/></br></br>
 <input type="submit" class="btn" value="Sign Up"></br>
 </form>
 </h2>
 <p class="bottom">Already have an account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
 </div>
 </div>
</td>
</tr>
</table>
 </body>
</html>
```

APP.PY:

```
from flask import Flask, render_template, request, redirect, url_for, session

import ibm_db

import re

app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-bef4-1bbf73c5-
d84a-4bb0-85b9-
ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=32286;SECURITY=SSL
;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=jmf44160;PWD=xFr122zRwL6A9eJP","","")

@app.route("/")

def index():

   return render_template('index.html')

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

def login():

    global userid

    msg = ''

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

        username = request.form['username']

        password = request.form['password']

        stmt = ibm_db.prepare(conn,'SELECT * FROM user WHERE username = ? AND password
= ?')

        ibm_db.bind_param(stmt,1,username)

        ibm_db.bind_param(stmt,2,password)

        ibm_db.execute(stmt)

        account = ibm_db.fetch_assoc(stmt)

        if account:

            session['loggedin'] = True

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

            msg = 'Logged in successfully !'

            return render_template('index.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'))

@app.route('/register', methods =['GET', 'POST'])
def register():
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        email = request.form['email']
        sql = "SELECT * FROM user WHERE username = ? "
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'Username must contain only characters and numbers !'
        elif not username or not password or not email:
            msg = 'Please fill out the form !'
        else:
            insert_sql = "INSERT INTO user VALUES (?, ?, ?)"
            stmt = ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(stmt, 1, username)
            ibm_db.bind_param(stmt, 2, password)
            ibm_db.bind_param(stmt, 3, email)
            ibm_db.execute(stmt)
            msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'

    return render_template('register.html', msg = msg)
if __name__ == '__main__':
     app.run(debug = True)
```

OUTPUT:



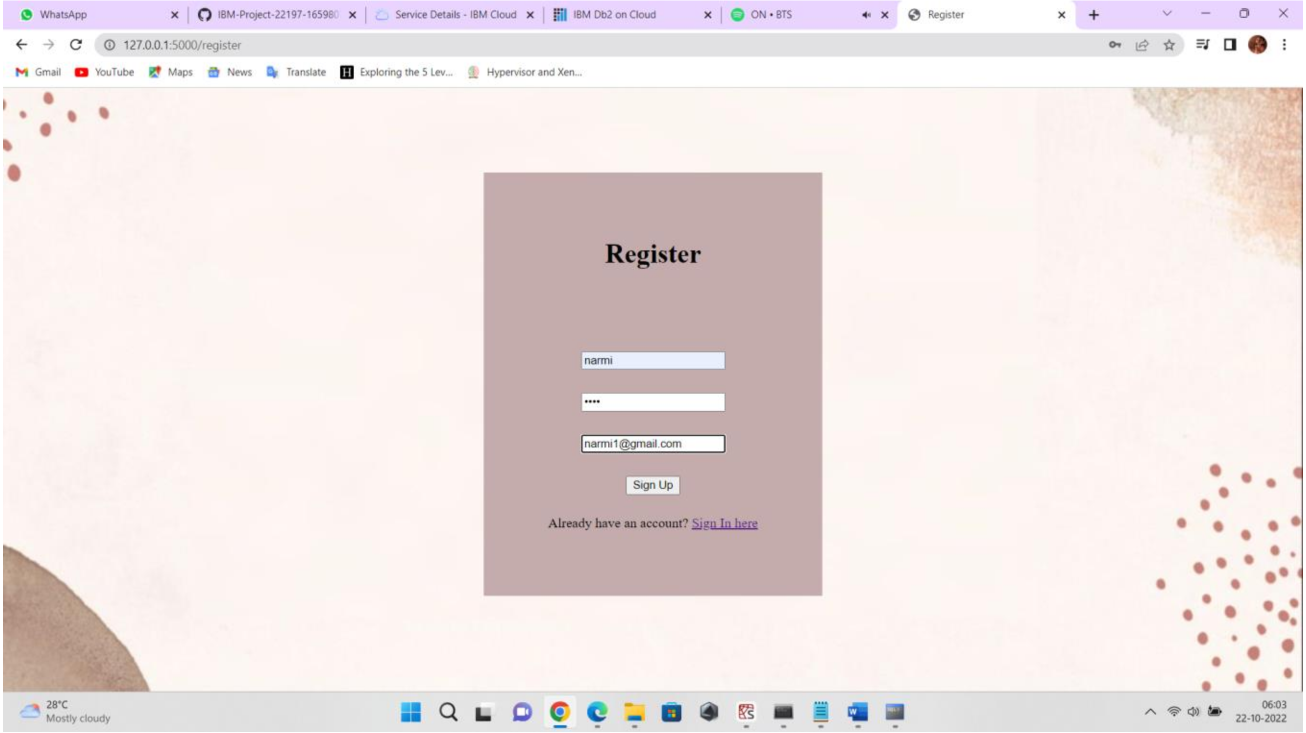
REGISTER

LOGIN

HELLO

WELCOME TO MY WEBSITE

THIS IS NARMATHA



Register

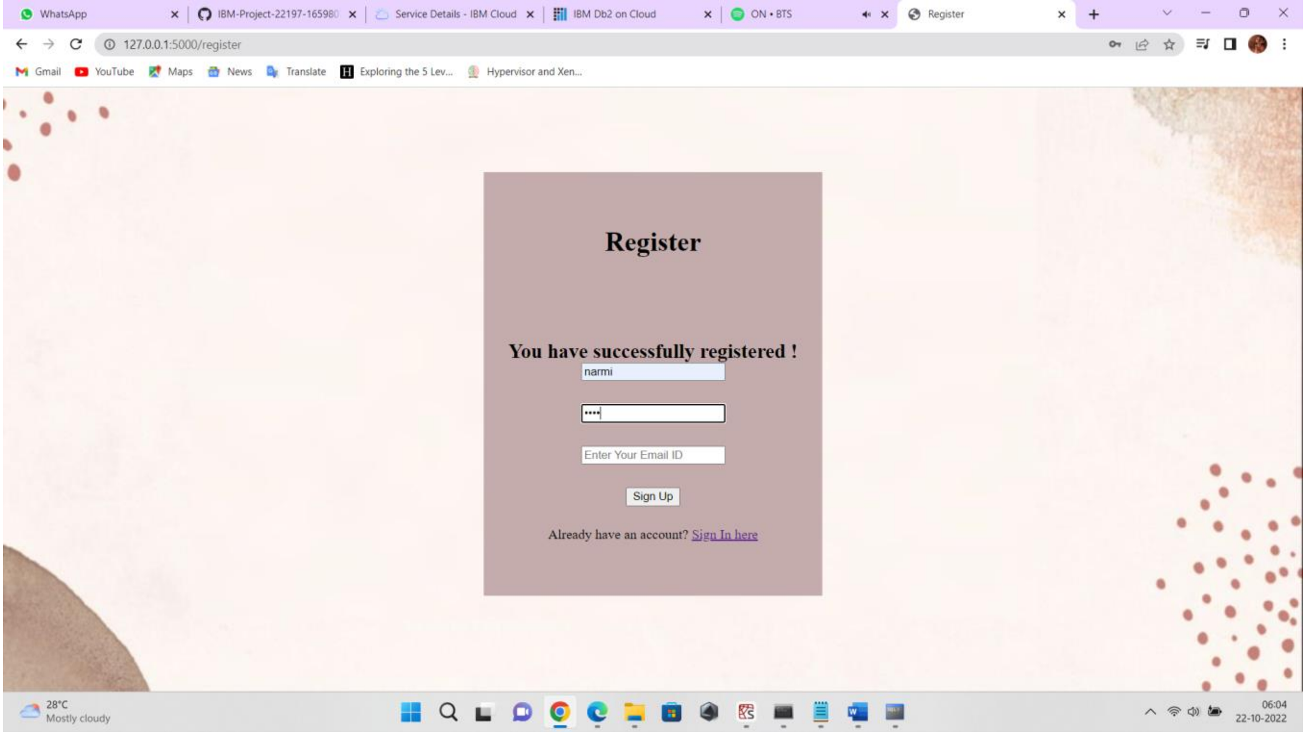
narmi

••••

narmi1@gmail.com

Sign Up

Already have an account? Sign In here



Register

You have successfully registered !

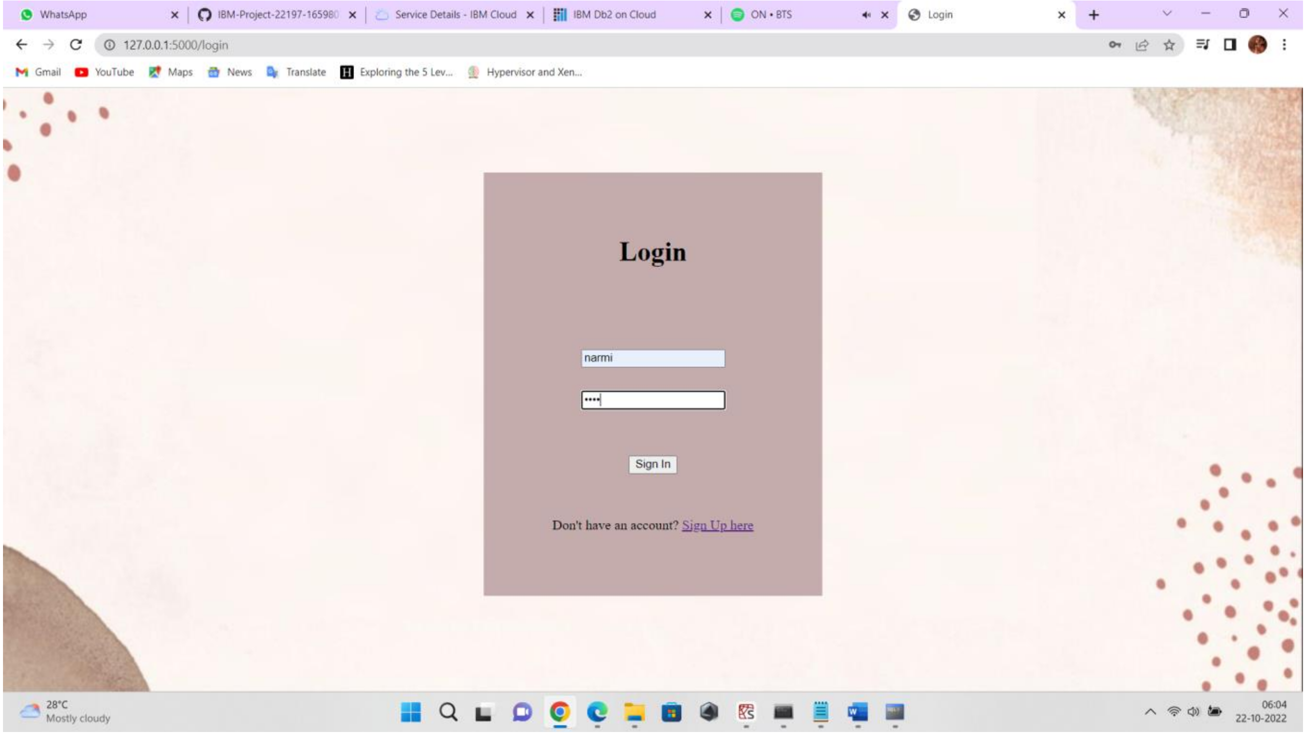
narmi

••••

Enter Your Email ID

Sign Up

Already have an account? Sign In here



Login

narmi

••••

Don't have an account? Sign Up here