ASSIGNMENT 2

Assignment Date	17.11.2022
Student Name	S.Vilva praveen
Student Roll Number	913019104029
Maximum Marks	2Marks

QUESTION:

1.Create a Flask App :

```
from turtle import st

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

from markupsafe import escape

app = Flask(__name__)

import ibm_db

hostname = "9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

uid = "wth08341"

pwd = "c8Xk4BUv4Cg6b3SB"

driver = "{IBM DB2 ODBC DRIVER}"

db = "bludb"

port = " 32459"

protocol = "TCPIP"

cert = "abc.crt"

dsn = (
    "DATABASE={0};"
    "HOSTNAME={1};"
    "PORT={2};"
    "UID={3};"
```

```python
        "SECURITY=SSL;"

        "SSLServerCertificate={4};"

        "PWD={5};"

).format(db, hostname, port, uid, cert, pwd)

print(dsn)

try:

    db2 = ibm_db.connect(dsn, "", "")

    print("Connected to data base")

except:

    print("Unable to connect", ibm_db.conn_errormsg())

@app.route('/')

def home():

    return render_template('home.html')

@app.route('/signin')

def signin():

    return render_template('signin.html')

@app.route('/signup')

def signup():

    return render_template('signup.html')

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

def register():

    if request.method == 'POST':

        username = request.form['username']

        email = request.form['email']

        password = request.form['password']

        sql = "SELECT * FROM user WHERE username =?"

        stmt = ibm_db.prepare(db2, sql)

        ibm_db.bind_param(stmt, 1, username)

        ibm_db.execute(stmt)

        account = ibm_db.fetch_assoc(stmt)

        if account:
```

```python
            return render_template('signup.html', msg="Username Already Taken")
        else:
            sql = "insert into user(username,email,password) values(?,?,?)"
            prep_stmt = ibm_db.prepare(db2, sql)
            ibm_db.bind_param(prep_stmt, 1, username)
            ibm_db.bind_param(prep_stmt, 2, email)
            ibm_db.bind_param(prep_stmt, 3, password)
            ibm_db.execute(prep_stmt)
            return redirect(url_for('signin'))
@app.route('/login', methods=['POST', 'GET'] )
def login():
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "select * from user where username=? and password=?"
        stmt = ibm_db.prepare(db2, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        dic = ibm_db.fetch_assoc(stmt)
        print(dic)
        if dic:
            return render_template('home.html', msg="WELCOME TO FLASK APPLICATION")
        else:
            msg = "Invalid Username or Password"
            return render_template('signin.html', msg=msg)
    elif request.method == 'GET':
        msg = "Invalid Username or Password"
        return render_template('signin.html', msg=msg)
if __name__ == '__main__':
    app.run(debug=True)
```
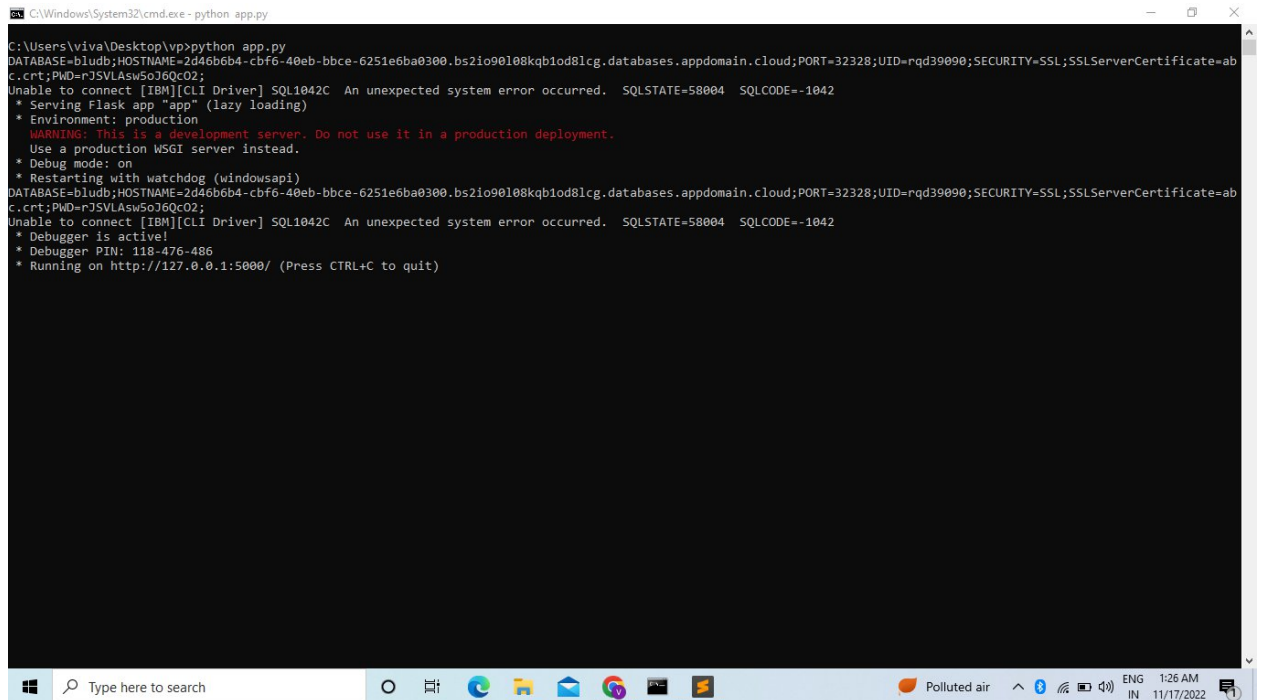
OUTPUT :

2. ADD THE HOME AND ABOUT PAGE :

WEBPAGE (first page) :

```html
<html>
<head>
    <title>home</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" crossorigin="anonymous"></script>
```

```html
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"
integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3"
crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js" integrity="sha384-
IDwe1+LCz02ROU9k972gdyvl+AESN10+x7tBKgc9I5HFtuNz0wWnPclzo6p9vxnk"
crossorigin="anonymous"></script>

    <style>

      body{

      padding:50px;

      background-image:linear-gradient(to right,black,blue,black) ;

      }


    </style>
</head>


<body >

<a href="{{url_for('signin')}}"><button class="rounded-pill" style="width: 600px; height: 75px; background-
color: lightyellow; font-size: 45px;">signin</button></a>

<a href="{{url_for('signup')}}"><button class="rounded-pill" style="width: 600px; height:75px; background-
color: lightyellow;  font-size: 45px;">signup</button></a><br>

<h1 style=" font-size: 120px; font-family:cooper black;color:white  ; ">FLASK APPLICATION</h1>


{% block content %}


{% endblock %}


{{msg}}
</body>

</html>
```
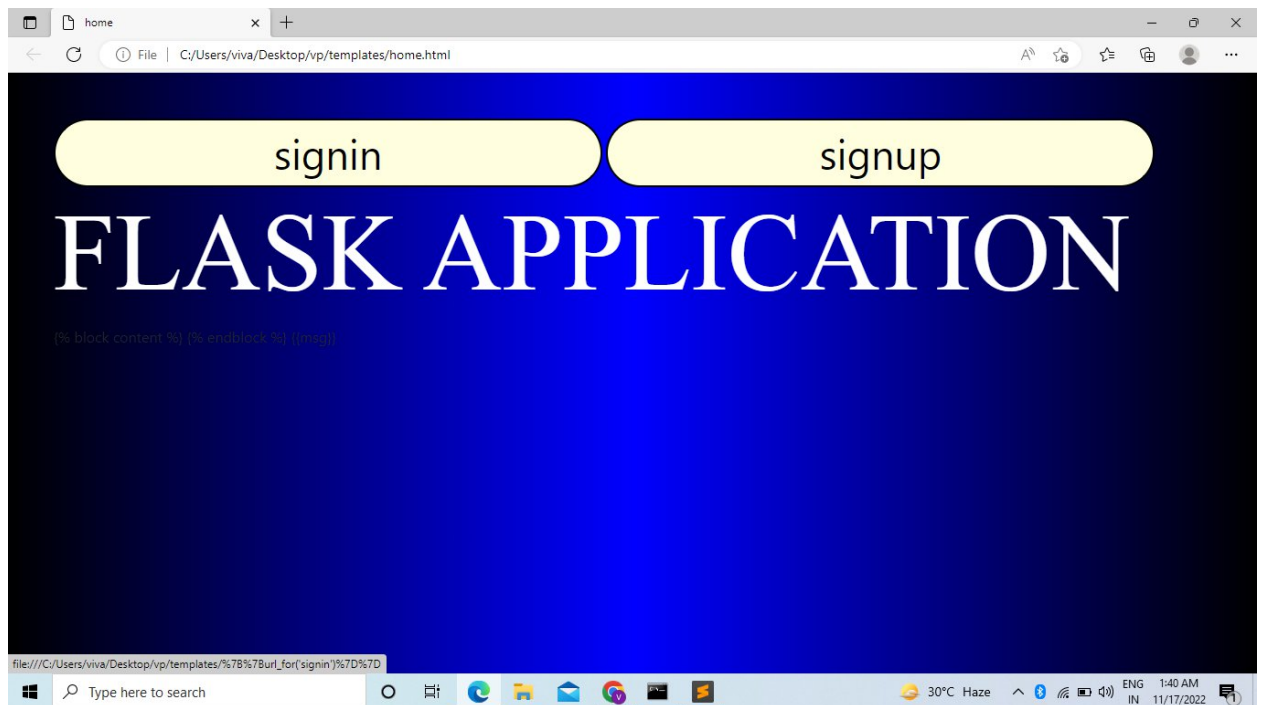
OUTPUT :

file:///C:/Users/viva/Desktop/vp/templates/%7B%7Burl_for('signin')%7D%7D

HOME PAGE (Welcome page):

 <html>

<head>

   <title>home</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js" integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3" crossorigin="anonymous"></script>

```html
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js" integrity="sha384-IDwe1+LCz02ROU9k972gdyvl+AESN10+x7tBKgc9I5HFtuNz0wWnPclzo6p9vxnk" crossorigin="anonymous"></script>


    <style>


        body{

        padding:50px;

        background-image:linear-gradient(to right,black,blue,black) ;

        }


    </style>
</head>


<body >

<a href="{{url_for('signin')}}"><button class="rounded-pill" style="width: 600px; height: 75px; background-color: lightyellow; font-size: 45px;">signin</button></a>

<a href="{{url_for('signup')}}"><button class="rounded-pill" style="width: 600px; height:75px; background-color: lightyellow;  font-size: 45px;">signup</button></a><br>

<h1 style=" font-size: 120px; font-family:cooper black;color:white  ; ">FLASK APPLICATION</h1>


{% block content %}


{% endblock %}


{{msg}}
</body>

</html>
```
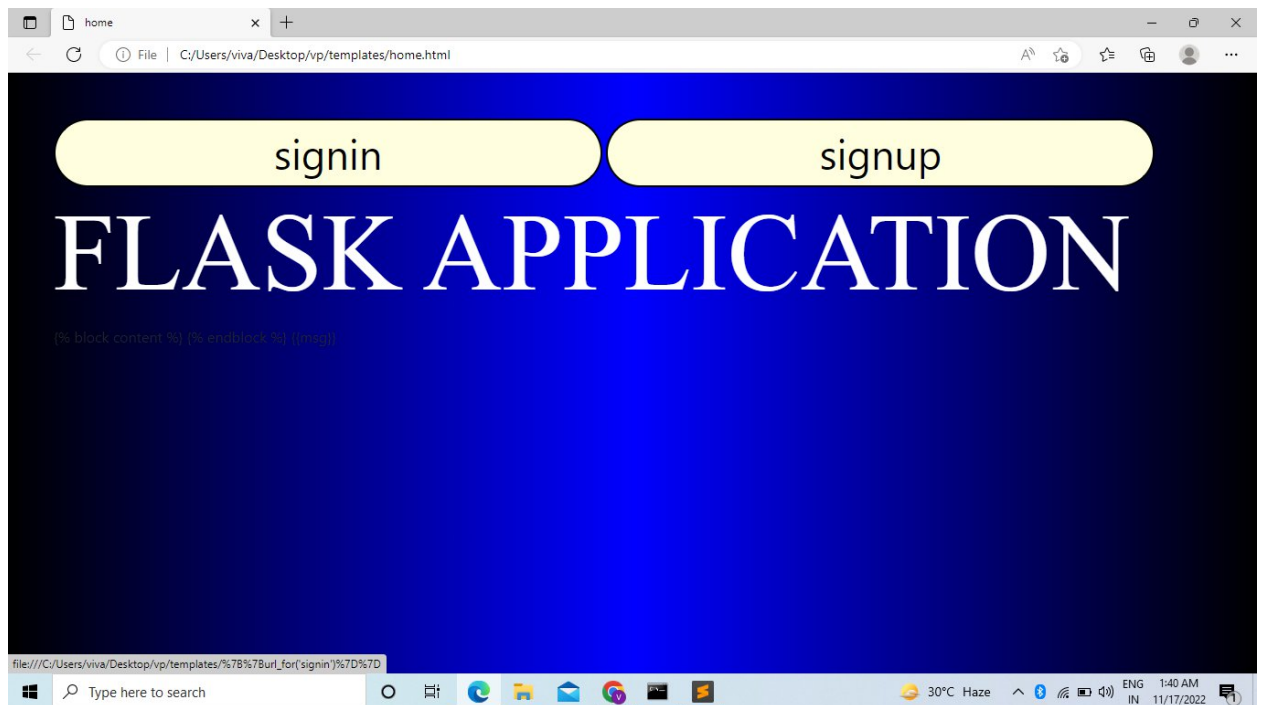
OUTPUT :

3.ADD THE BOOTSTRAP :

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js" integrity="sha384-OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js" integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js" integrity="sha384-IDwe1+LCz02ROU9k972gdyvl+AESN10+x7tBKgc9I5HFtuNz0wWnPclzo6p9vxnk" crossorigin="anonymous"></script>

4.SIGN IN PAGE :

```
{% extends 'home.html' %}


{% block content %}
 <form action = "{{ url_for('login') }}" method = "POST">
  <font color="white">
  <div class="mb-3"   >
    <label for="username" class="form-label" >username</label>
    <input type="text" name="username" class="form-control" id="username"placeholder="username">
  </div>
  <div class="mb-3">
    <label for="exampleInputPassword1" class="form-label">Password</label>
    <input type="password" class="form-control" name="password" id="exampleInputPassword1"placeholder="Password">
  </div>
  <div class="mb-3 form-check">
    <input type="checkbox" class="form-check-input" id="exampleCheck1">
    <label class="form-check-label" for="exampleCheck1">Check me out</label>
  </div>
  <button type="submit" class="btn btn-primary">Submit</button></font>
</form>
{{msg}}
{% endblock %}
```
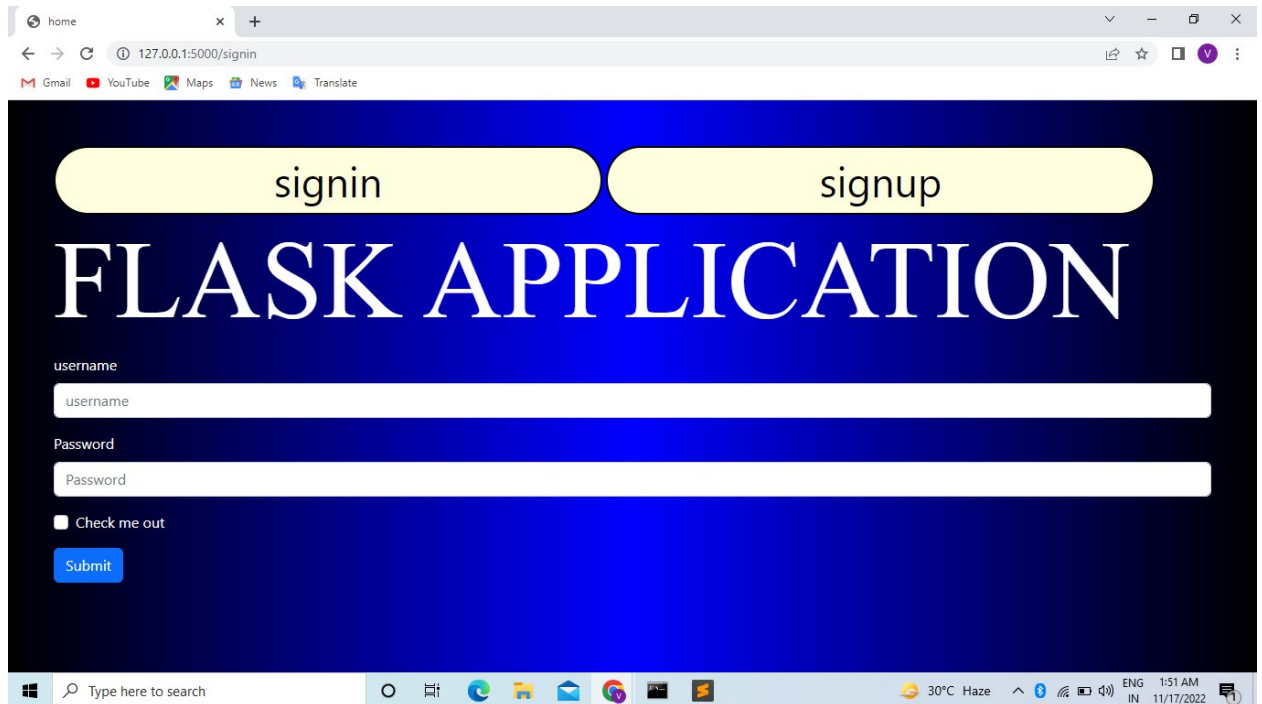
OUTPUT :

5.SIGN UP PAGE :

{% extends 'home.html' %}

{% block content %}

 <form action = "{{ url_for('register') }}" method = "POST">

  <font color="white">

   <div class="mb-3">

   <label for="exampleInputPassword1" class="form-label">Username</label>

   <input type="username" name="username" class="form-control" placeholder="Username"
id="exampleInputPassword1">

  </div>

  <div class="mb-3">

   <label for="exampleInputEmail1" class="form-label" >Email address</label>

   <input type="email" name="email" class="form-control" placeholder="Email" id="exampleInputEmail1"
aria-describedby="emailHelp">

   <div id="emailHelp" class="form-text">We'll never share your email with anyone else.</div>

```
      </div>

  <div class="mb-3">

    <label for="exampleInputPassword1" class="form-label" >Password</label>

    <input type="password" name="password" class="form-control" placeholder="password"
id="exampleInputPassword1">

  </div>

  <div class="mb-3 form-check">

    <input type="checkbox" class="form-check-input" id="exampleCheck1">

    <label class="form-check-label" for="exampleCheck1">Check me out</label>

  </div>

  <button type="submit" class="btn btn-primary" >Submit</button>

</font>

</form>

{{msg}}

{% endblock %}
```
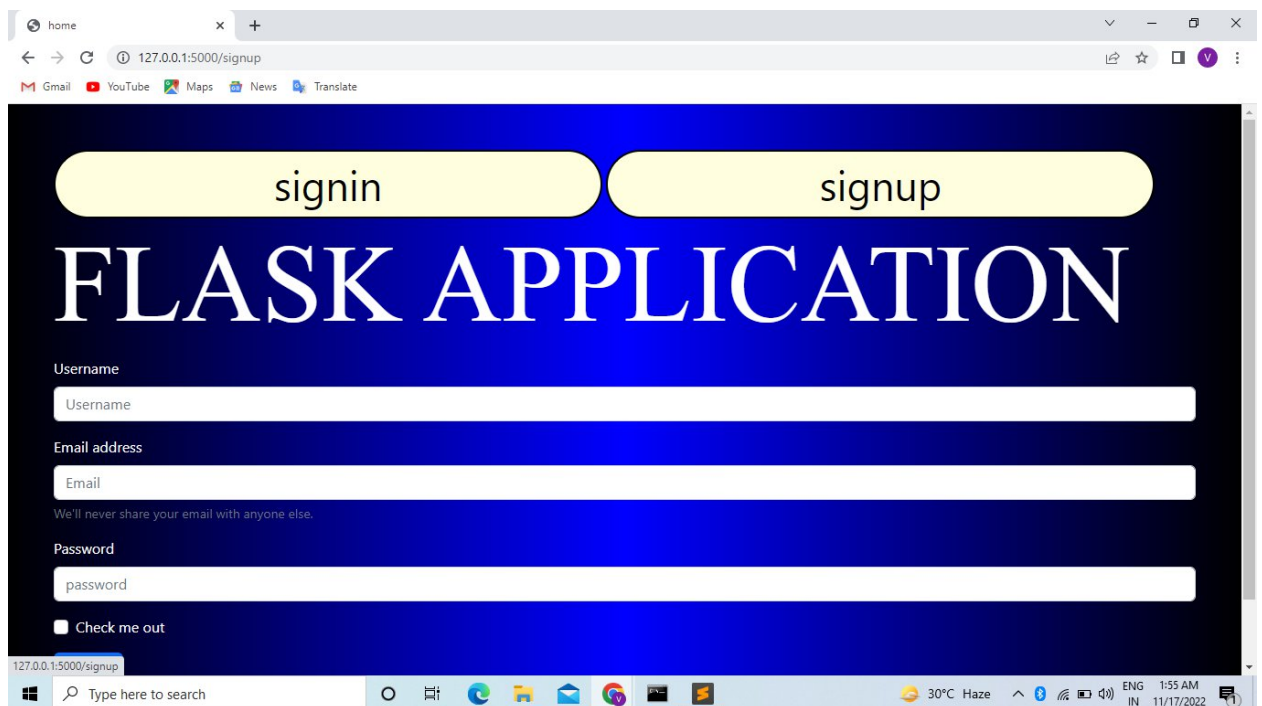
OUTPUT :

5.DATABASE CONNECTIVITY :

```python
import ibm_db

hostname = "9938aec0-8105-433e-8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"

uid = "wth08341"

pwd = "c8Xk4BUv4Cg6b3SB"

driver = "{IBM DB2 ODBC DRIVER}"

db = "bludb"

port = " 32459"

protocol = "TCPIP"

cert = "abc.crt"

dsn = (
    "DATABASE={0};"

    "HOSTNAME={1};"

    "PORT={2};"

    "UID={3};"

    "SECURITY=SSL;"

    "SSLServerCertificate={4};"

    "PWD={5};"
).format(db, hostname, port, uid, cert, pwd)

print(dsn)

try:
    db2 = ibm_db.connect(dsn, "", "")

    print("Connected to data base")

except:
    print("Unable to connect", ibm_db.conn_errormsg())
```

OUTPUT :

DATABASE LIST :