ASSIGNMENT 02

LOGIN AND REGISTER HTML PAGES

TASK 1: HTML code using Flask web framework.

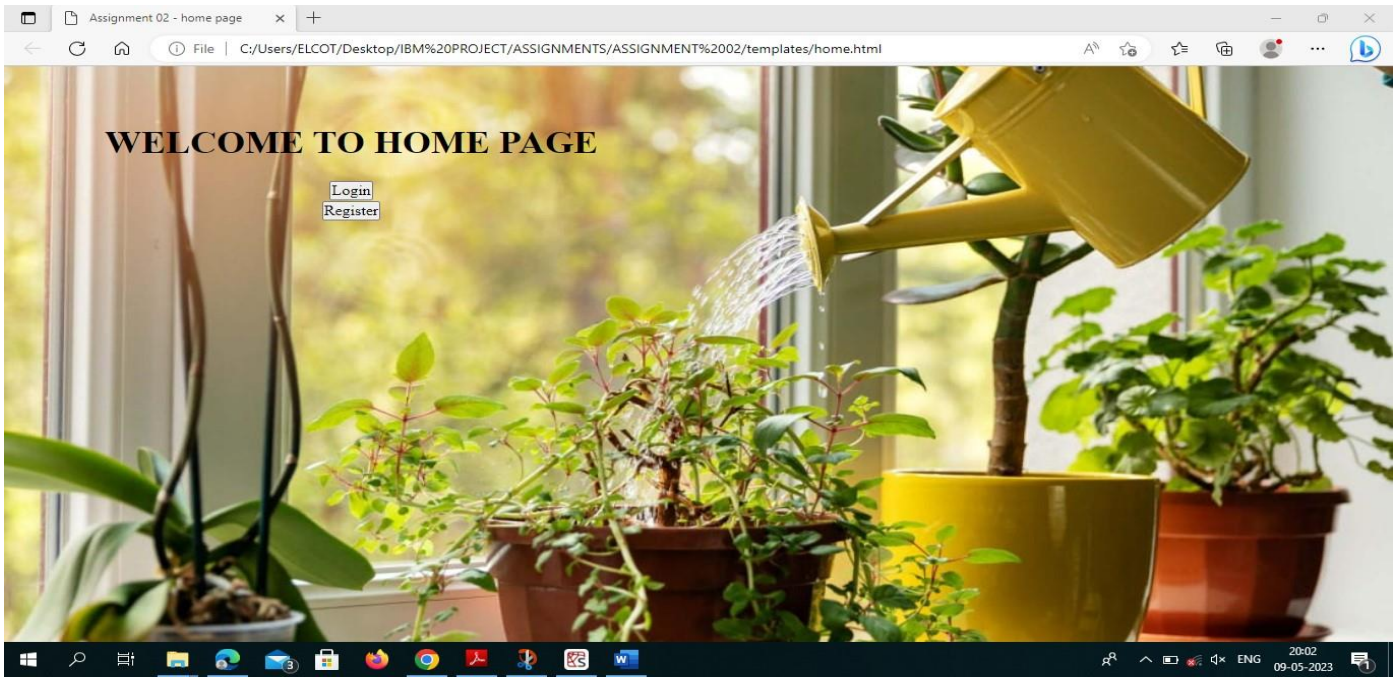
CODING :

Home.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Assignment 02 - home page  </title>

<style type="text/css">
*{
    margin: 0;
    padding: 0%;
    font-family: 'Times New Roman';
}
.banner{
    width: 100%;
    height: 100vh;
    background-image: url(bg3.jpeg);
    background-size: cover;
    background-position:center;
}
.content{
    width: 100%;
    position: absolute;
    top: 10%;
    transform: translate(-50%);
    text-align: center;
    color: black;
}
.content h1{
    font-size: 30px;
    padding-left: 50%;
}
.button{
    text-align: center;
```

```
    cursor: pointer;
    padding-left: 50%;
    font-weight: bold;
    font-size: 16px;
    background: transparent;
}
</style>
</head>
<body>
    <div class="banner"></div>
    <div class="content">
        <h1>WELCOME TO HOME PAGE</h1></br>
        <div class="button">
          <form action="login.html"><button>Login</button></form>
          <form action="register.html"><button>Register</button></form>
        </div>
    </div>
</body>
</html>
```

OUTPUT SCREENSHOT



Login.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
```

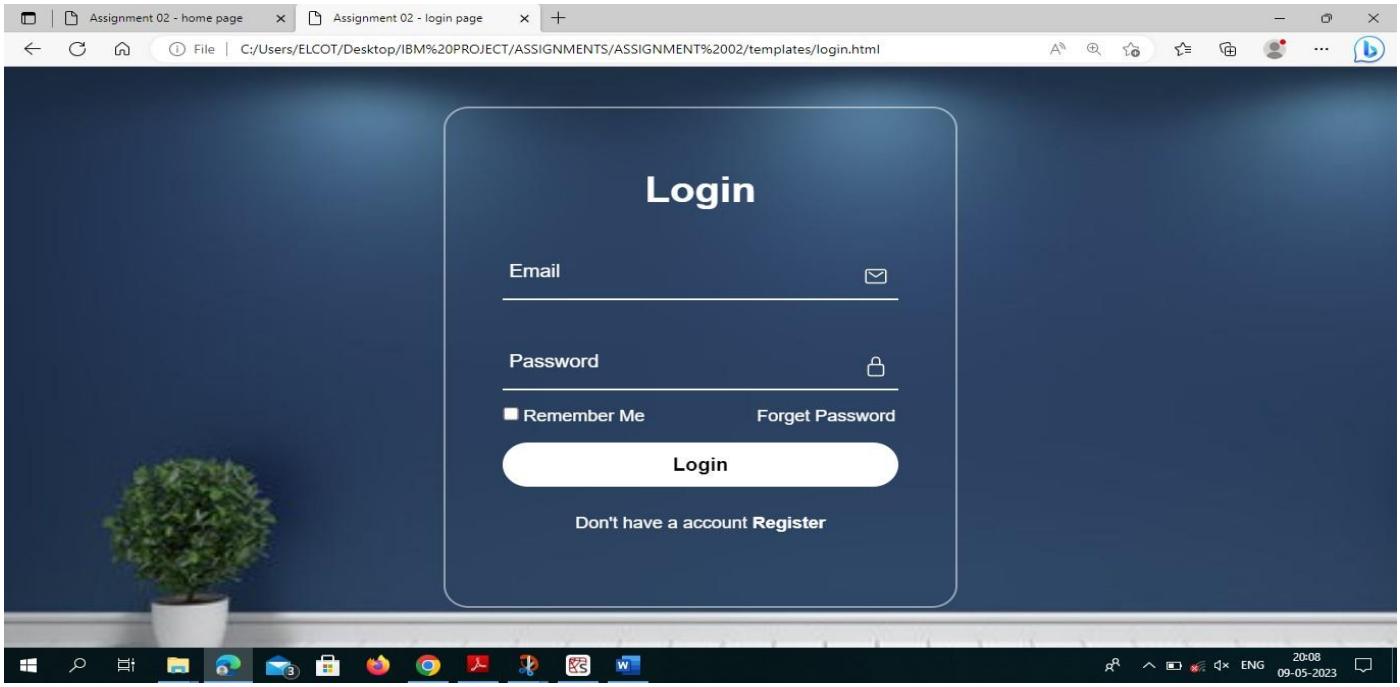
```
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Assignment 02 - login page  </title>

<style type="text/css">
    @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@500&display=swap');
*{
    margin: 0;
    padding: 0;
    font-family: 'poppins',sans-serif;
}
section{
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
    width: 100%;

    background: url('bg2.jpg')no-repeat;
    background-position: center;
    background-size: cover;
}
.form-box{
    position: relative;
    width: 400px;
    height: 450px;
    background: transparent;
    border: 2px solid rgba(255,255,255,0.5);
    border-radius: 20px;
    backdrop-filter: blur(15px);
    display: flex;
    justify-content: center;
    align-items: center;

}
h2{
    font-size: 2em;
    color: #fff;
    text-align: center;
}
.inputbox{
    position: relative;
    margin: 30px 0;
    width: 310px;
    border-bottom: 2px solid #fff;
}
.inputbox label{
    position: absolute;
    top: 50%;
```

```
    left: 5px;
    transform: translateY(-50%);
    color: #fff;
    font-size: 1em;
    pointer-events: none;
    transition: .5s;
}
input:focus ~ label,
input:valid ~ label{
top: -5px;
}
.inputbox input {
    width: 100%;
    height: 50px;
    background: transparent;
    border: none;
    outline: none;
    font-size: 1em;
    padding:0 35px 0 5px;
    color: #fff;
}
.inputbox ion-icon{
    position: absolute;
    right: 8px;
    color: #fff;
    font-size: 1.2em;
    top: 20px;
}
.forget{
    margin: -15px 0 15px ;
    font-size: .9em;
    color: #fff;
    display: flex;
    justify-content: space-between;
}

.forget label input{
    margin-right: 3px;

}
.forget label a{
    color: #fff;
    text-decoration: none;
}
.forget label a:hover{
    text-decoration: underline;
}
button{
```

```
    width: 100%;
    height: 40px;
    border-radius: 40px;
    background: #fff;
    border: none;
    outline: none;
    cursor: pointer;
    font-size: 1em;
    font-weight: 600;
}
.register{
    font-size: .9em;
    color: #fff;
    text-align: center;
    margin: 25px 0 10px;
}
.register p a{
    text-decoration: none;
    color: #fff;
    font-weight: 600;
}
.register p a:hover{
    text-decoration: underline;
}
</style></head>
<body>
    <section>
        <div class="form-box">
            <div class="form-value">
                <form action="/login1",method = "post">
                    <h3>Please enter the below details</h3>
                    <h2>Login</h2>
                    <div class="inputbox">
                        <ion-icon name="mail-outline"></ion-icon>
                        <input type="email" required>
                        <label for="">Email</label>
                    </div>
                    <div class="inputbox">
                        <ion-icon name="lock-closed-outline"></ion-icon>
                        <input type="password" required>
                        <label for="">Password</label>
                    </div>
                    <div class="forget">
                        <label for="#"><input type="checkbox">Remember Me
         
                                      <a
href="#">Forget Password</a></label>
                    </div>
```

```
            <button>Login</button>
            <div class="register">
               <p>Don't have a account <a href="register.html">Register</a></p>
            </div>
          </form>
        </div>
      </div>
   </section>
</body>
</html>
```

OUTPUT SCREENSHOT



Register.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="stylesheet" href="register.css">
  <title>Assignment 02 - Register page </title>

<style type="text/css">
@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@500&display=swap');
*{
    margin: 0;
    padding: 0;
    font-family: 'poppins',sans-serif;
```

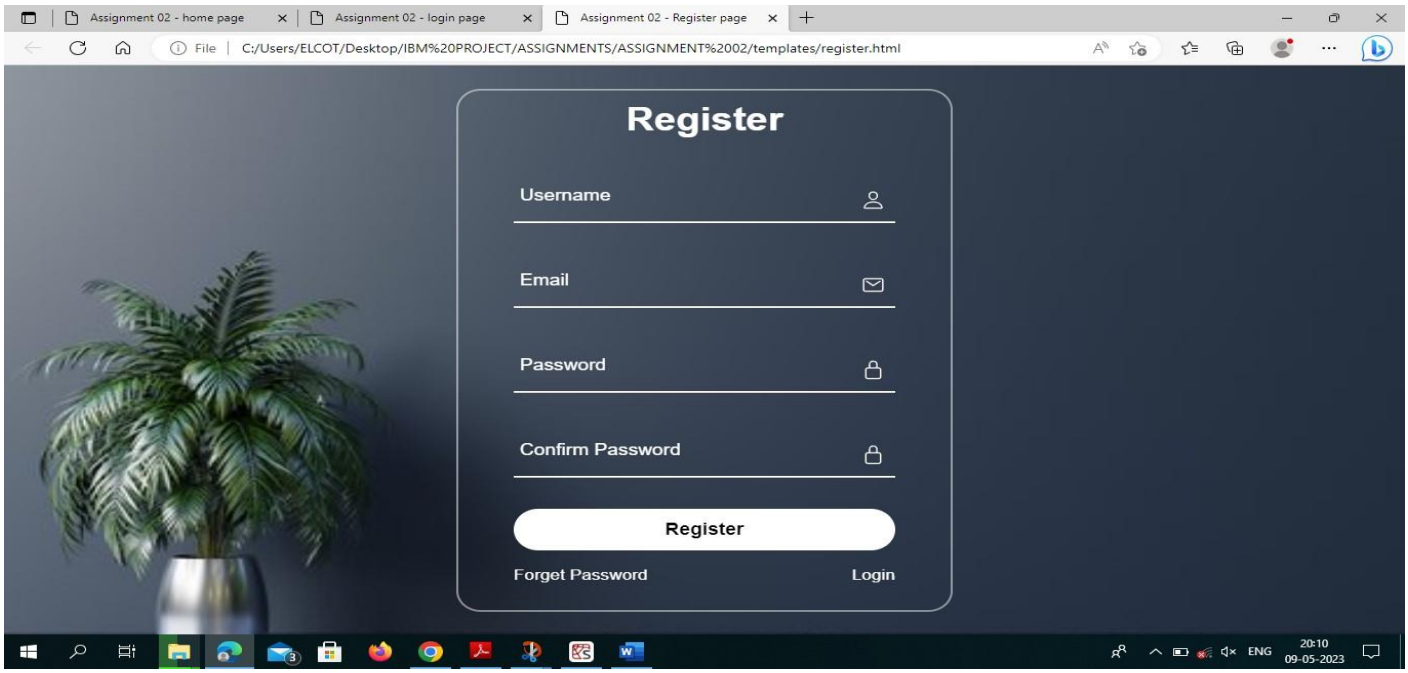
```
}
section{
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
    width: 100%;

    background: url('bg.jpg')no-repeat;
    background-position: center;
    background-size: cover;
}
.form-box{
    position: relative;
    width: 400px;
    height: 500px;
    background: transparent;
    border: 2px solid rgba(255,255,255,0.5);
    border-radius: 20px;
    backdrop-filter: blur(15px);
    display: flex;
    justify-content: center;
    align-items: center;

}
h2{
    font-size: 2em;
    color: #fff;
    text-align: center;
}
.inputbox{
    position: relative;
    margin: 30px 0;
    width: 310px;
    border-bottom: 2px solid #fff;
}
.inputbox label{
    position: absolute;
    top: 50%;
    left: 5px;
    transform: translateY(-50%);
    color: #fff;
    font-size: 1em;
    pointer-events: none;
    transition: .5s;
}
input:focus ~ label,
input:valid ~ label{
```

```
top: -5px;
}
.inputbox input {
    width: 100%;
    height: 50px;
    background: transparent;
    border: none;
    outline: none;
    font-size: 1em;
    padding:0 35px 0 5px;
    color: #fff;
}
.inputbox ion-icon{
    position: absolute;
    right: 8px;
    color: #fff;
    font-size: 1.2em;
    top: 20px;
}
.forget{
    margin: 15px 0 15px ;
    font-size: .9em;
    color: #fff;
    display: flex;
    justify-content: space-between;
}

.forget label input{
    margin-right: 3px;

}
.forget label a{
    color: #fff;
    text-decoration: none;
}
.forget label a:hover{
    text-decoration: underline;
}

.login{
    margin: 15px 0 15px ;
    font-size: .9em;
    color: #fff;
    display: flex;
    justify-content: space-between;
}

.login label input{
```

```
    margin-right: 3px;

}
.login label a{
    color: #fff;
    text-decoration: none;
}
.login label a:hover{
    text-decoration: underline;
}
button{
    width: 100%;
    height: 40px;
    border-radius: 40px;
    background: #fff;
    border: none;
    outline: none;
    cursor: pointer;
    font-size: 1em;
    font-weight: 600;
}
</style>
</head>
<body>
    <section>
        <div class="form-box">
            <div class="form-value">
                <form action="/register1",method = "post">
                    <h2>Register</h2>
                    <div class="inputbox">
                        <ion-icon name="person-outline"></ion-icon>
                        <input type="username" required>
                        <label for="">Username</label>
                    </div>
                    <div class="inputbox">
                        <ion-icon name="mail-outline"></ion-icon>
                        <input type="email" required>
                        <label for="">Email</label>
                    </div>
                    <div class="inputbox">
                        <ion-icon name="lock-closed-outline"></ion-icon>
                        <input type="password" required>
                        <label for="">Password</label>
                    </div>
                    <div class="inputbox">
                        <ion-icon name="lock-closed-outline"></ion-icon>
                        <input type="password" required>
                        <label for=""> Confirm Password</label>
```

```
            </div>
            <button>Register</button>
            <div class="forget">
               <label for="#"> <a href="#">Forget Password</a></label>
         
                            <label><a
href="login.html">Login</a></label>
            </div>
         </form>
      </div>
   </div>
</section>
</body>
</html>
```

OUTPUT SCREENSHOT



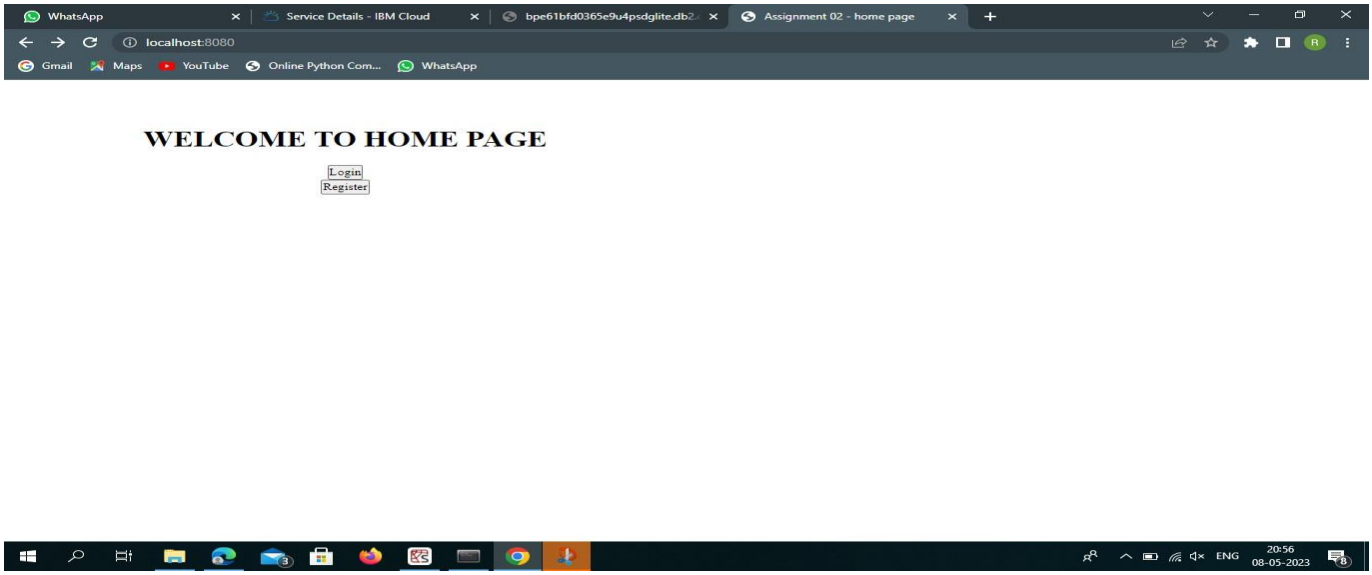
FLASK FRAMEWORK

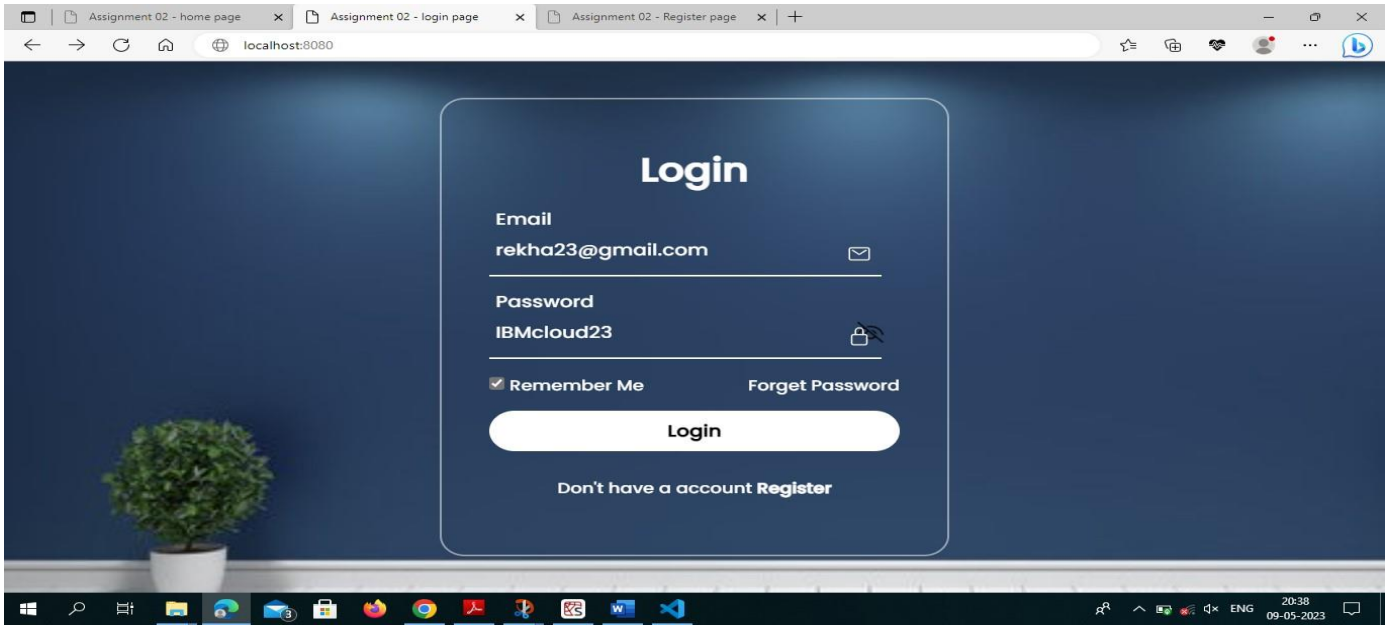
app.py

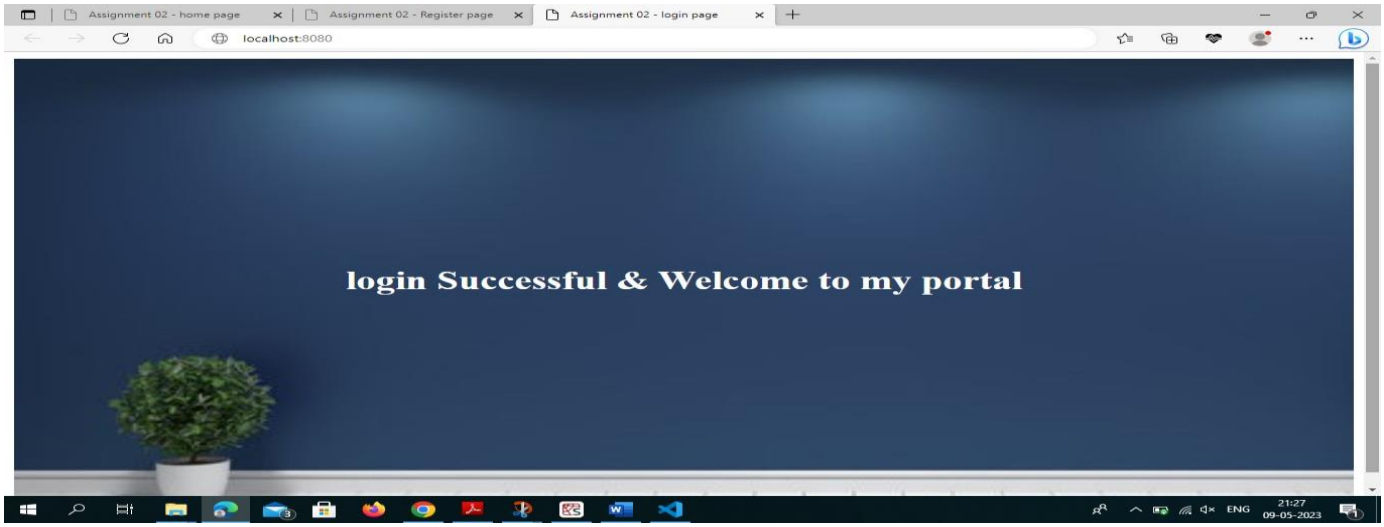
```
from flask import *

app = Flask(__name__)

@app.route('/')
def home():
   return render_template("home.html")
```

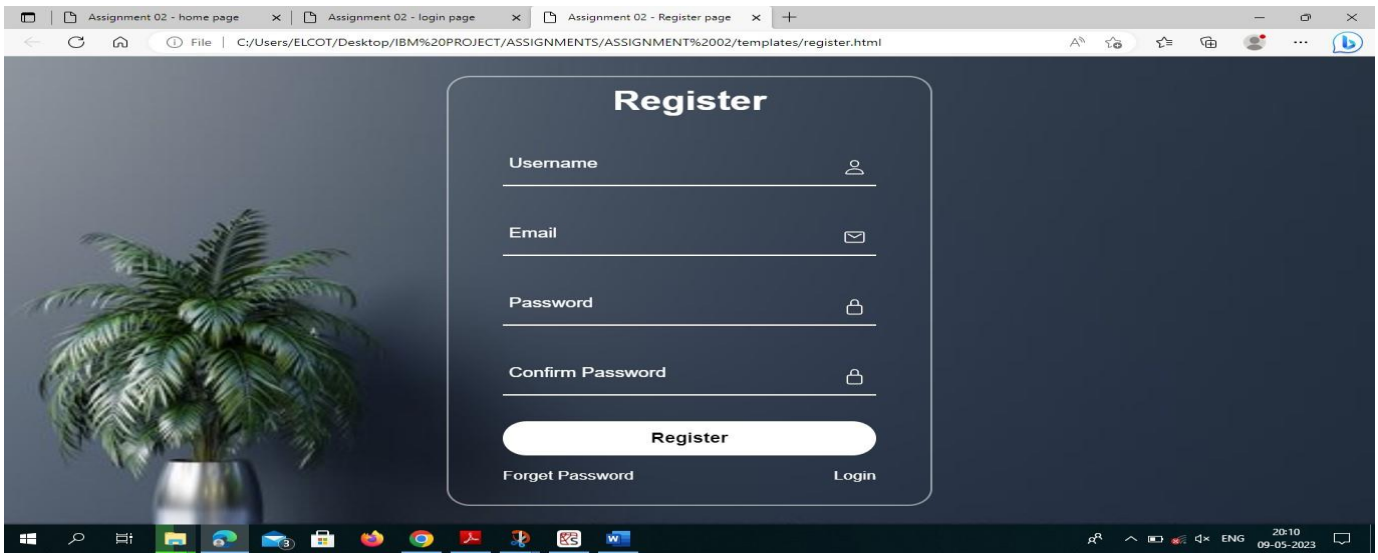
```
@app.route('/login')
def login():
    return render_template("login.html")

@app.route('/register')
def register():
    return render_template("register.html")

@app.route('/login1', methods = ['POST',"GET"])
def login1():
    EMAIL = request.form['EMAIL']
    PASSWORD = request.form['PASSWORD']
    if EMAIL == "rekha23@gmail.com" and PASSWORD == "IBMcloud23":
        return "login Successful & Welcome to my portal”
    else:
        return render_template("register.html")

@app.route('/register1', methods = ['POST',"GET"])
def register1():
    NAME = request.form['NAME']
    EMAIL = request.form['EMAIL']
    PASSWORD = request.form['password']
    CONFIRMPASSWORD = request.form['confirm password']
    return render_template("login.html")


if __name__ == "__main__":
    app.run(debug = True,port = 8080)
```

OUTPUT SCREENSHOT




Assignment 02 - home page
Assignment 02 - login page
Assignment 02 - Register page
localhost:8080
Login
Email
rekha23@gmail.com
Password
IBMcloud23
Remember Me
Forget Password
Login
Don't have a account Register
ENG
20:38
09-05-2023


Assignment 02 - home page
Assignment 02 - Register page
Assignment 02 - login page
localhost:8080
login Successful & Welcome to my portal
ENG
21:27
09-05-2023


Assignment 02 - home page
Assignment 02 - login page
Assignment 02 - Register page
File | C:/Users/ELCOT/Desktop/IBM%20PROJECT/ASSIGNMENTS/ASSIGNMENT%2002/templates/register.html
Register
Username
Email
Password
Confirm Password
Register
Forget Password
Login
ENG
20:10
09-05-2023

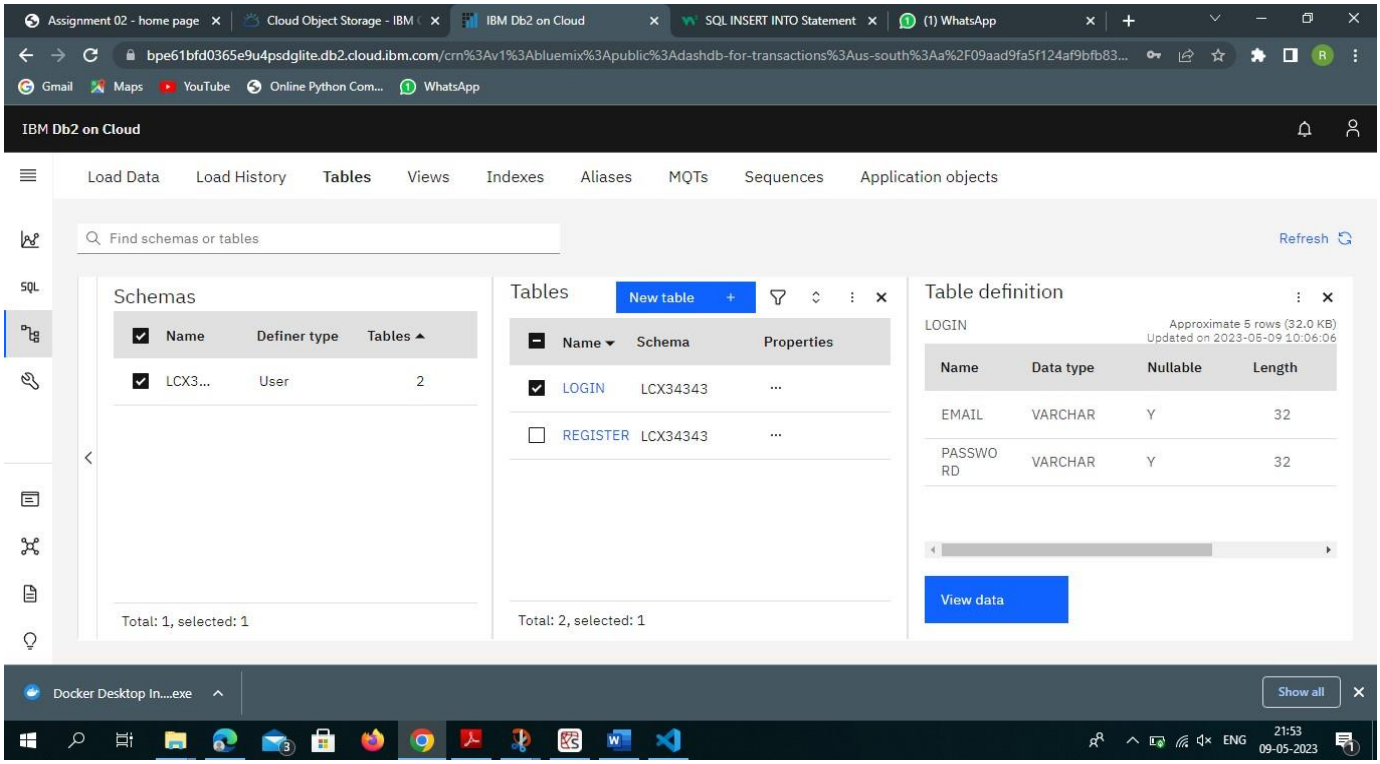
TASK 2: IBM DB2 Connection and Stored user registration details

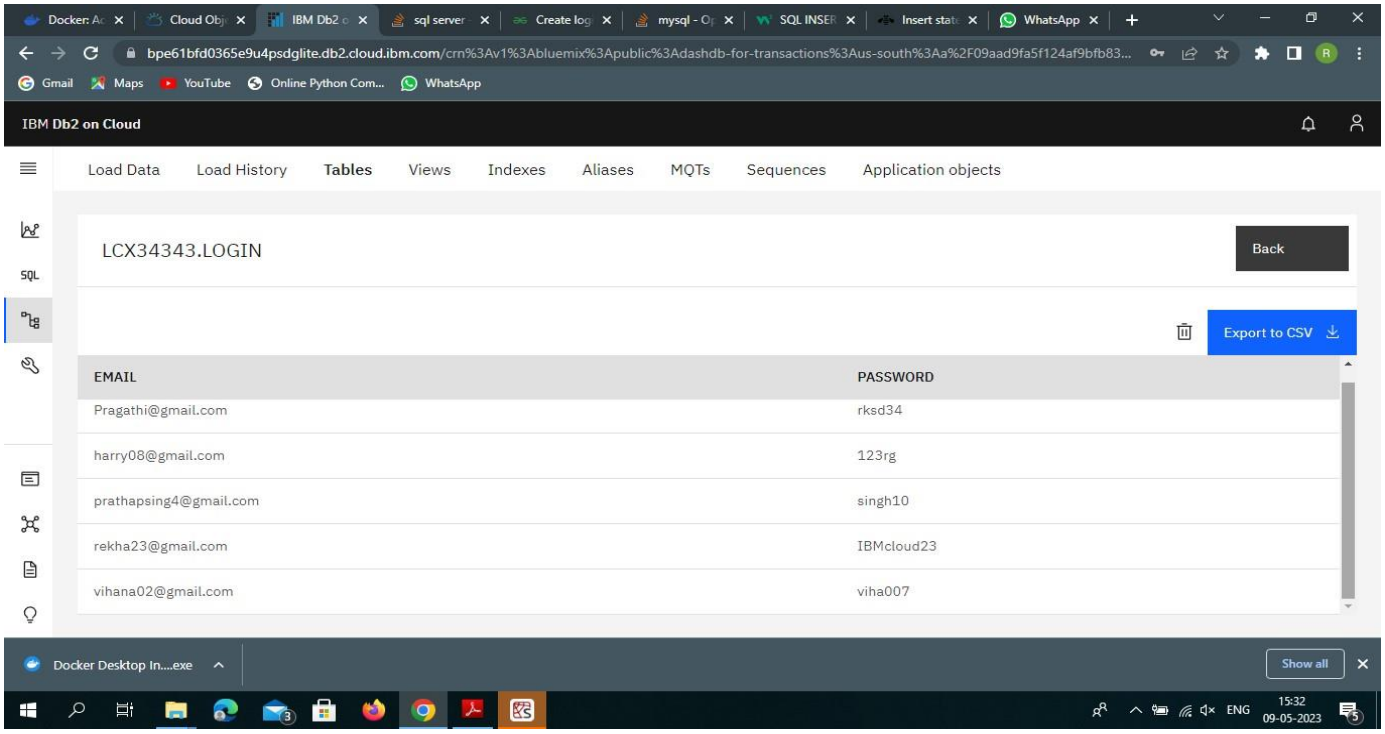
Connect.py

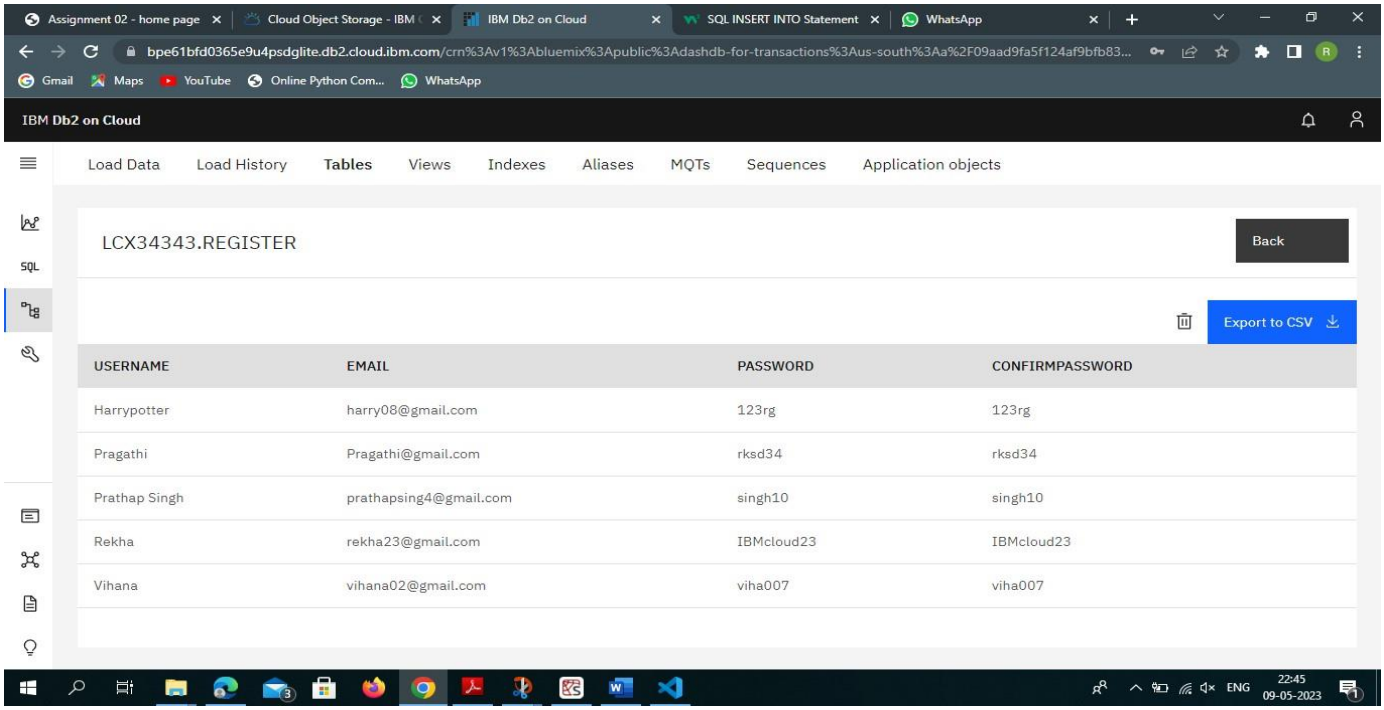
```
from flask import *

import ibm_db

conn = ibm_db.connect("DATABASE = bludb;HOSTNAME = 6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY =
SSL;SSLServerCertificate = DigiCertGlobalRootCA.crt;UID = lcx34343;PWD =
bIwm6K3SSakdPqoI","","")
print(conn)

app=Flask(_name_)

@app.route('/')
def home():
    return render_template('home.html')

@app.route('/login')
def login():
    return render_template('login.html')


@app.route('/register')
def register():
    return render_template('register.html')


# Registration page routing

@app.route('/register1',methods=['POST'])
def register1():
    x = [x for x in request.form.values()]
    print(x)
    USERNAME=x[0]
    EMAIL=x[1]
    PASSWORD=x[2]
    CONFIRMPASSWORD=X[3]
    sql = "SELECT * FROM register WHERE EMAIL =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,EMAIL)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
```

```
    print(account)
    if account:
        return render_template('login.html', pred="You are already a member, please login using your
details")
    else:
        insert_sql = "INSERT INTO  REGISTER VALUES (?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, NAME)
        ibm_db.bind_param(prep_stmt, 2, EMAIL)
        ibm_db.bind_param(prep_stmt, 3, PASSWORD)
        ibm_db.bind_param(prep_stmt, 4, CONFIRMPASSWORD)
        ibm_db.execute(prep_stmt)
        return render_template('login.html', pred="Registration Successful, please login using your
details")



@app.route('/login1',methods=['POST'])
def login1():
    EMAIL = request.form['EMAIL']
    PASSWORD = request.form['PASSWORD']
    sql = "SELECT * FROM login WHERE EMAIL =? AND PASSWORD=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,EMAIL)
    ibm_db.bind_param(stmt,2,PASSWORD)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print (account)
    print(EMAIL,PASSWORD)
    if account:
            return render_template('login.html', pred="Login successful")
    else:
        return render_template('login.html', pred="Login unsuccessful. Incorrect username/password !")

   if _name_ == "_main_":
    app.run(debug = False, port = 8888)
```

OUTPUT SCREENSHOT







TASK 3: Login Validation

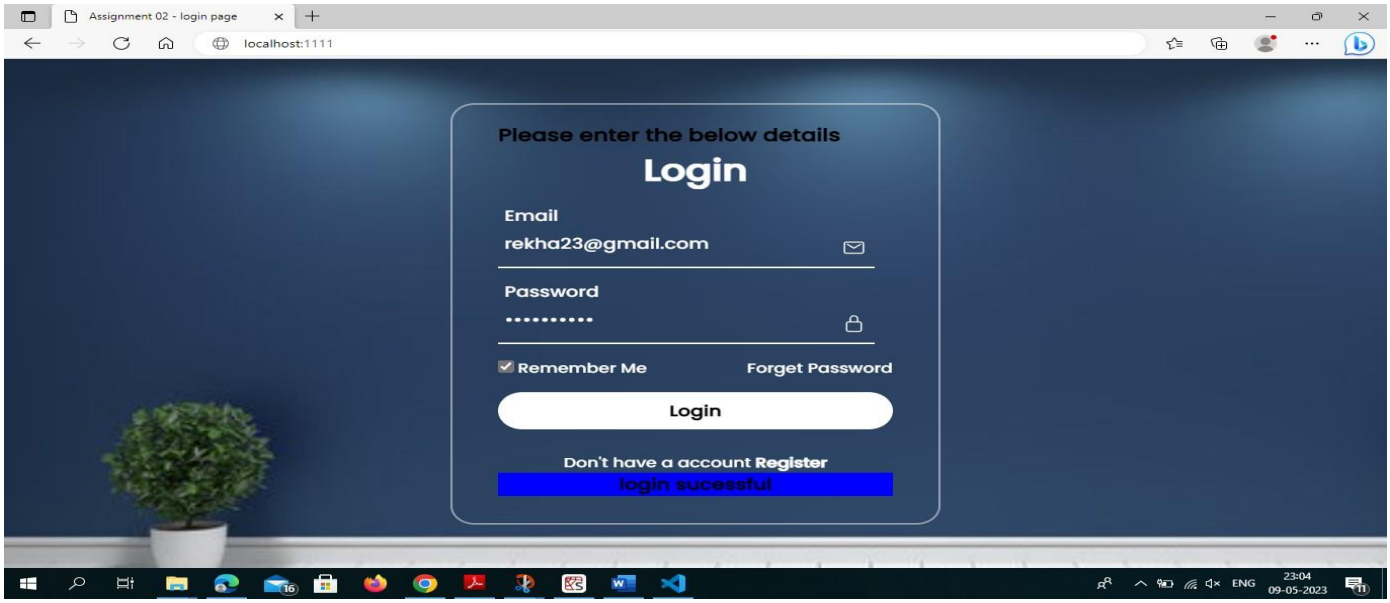
testpy.py

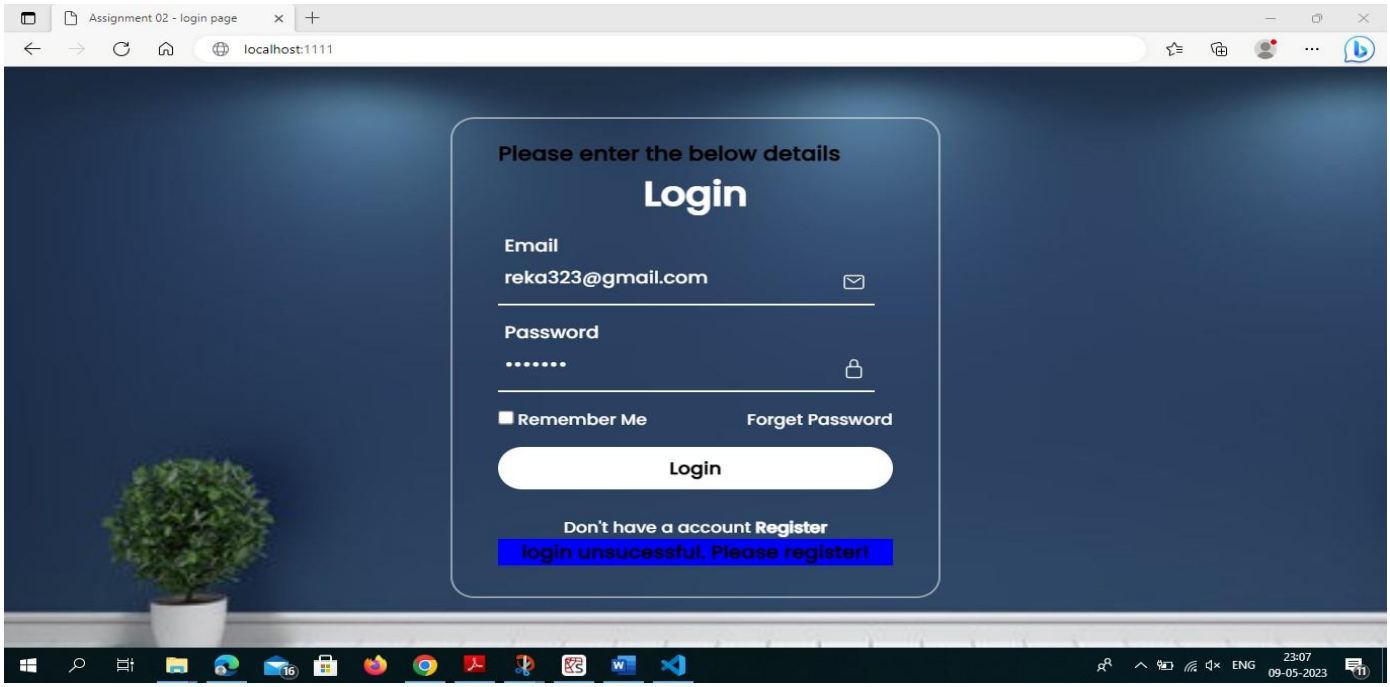
```
from flask import *
import ibm_db


conn = ibm_db.connect("DATABASE = bludb;HOSTNAME = 6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY =
SSL;SSLServerCertificate = DigiCertGlobalRootCA.crt;UID = lcx34343;PWD =
bIwm6K3SSakdPqoI",",")
print(conn)

app=Flask(_name_)


@app.route('/')
def home():
    return render_template('home.html')


@app.route('/login')
def login():
    return render_template('login.html')
```

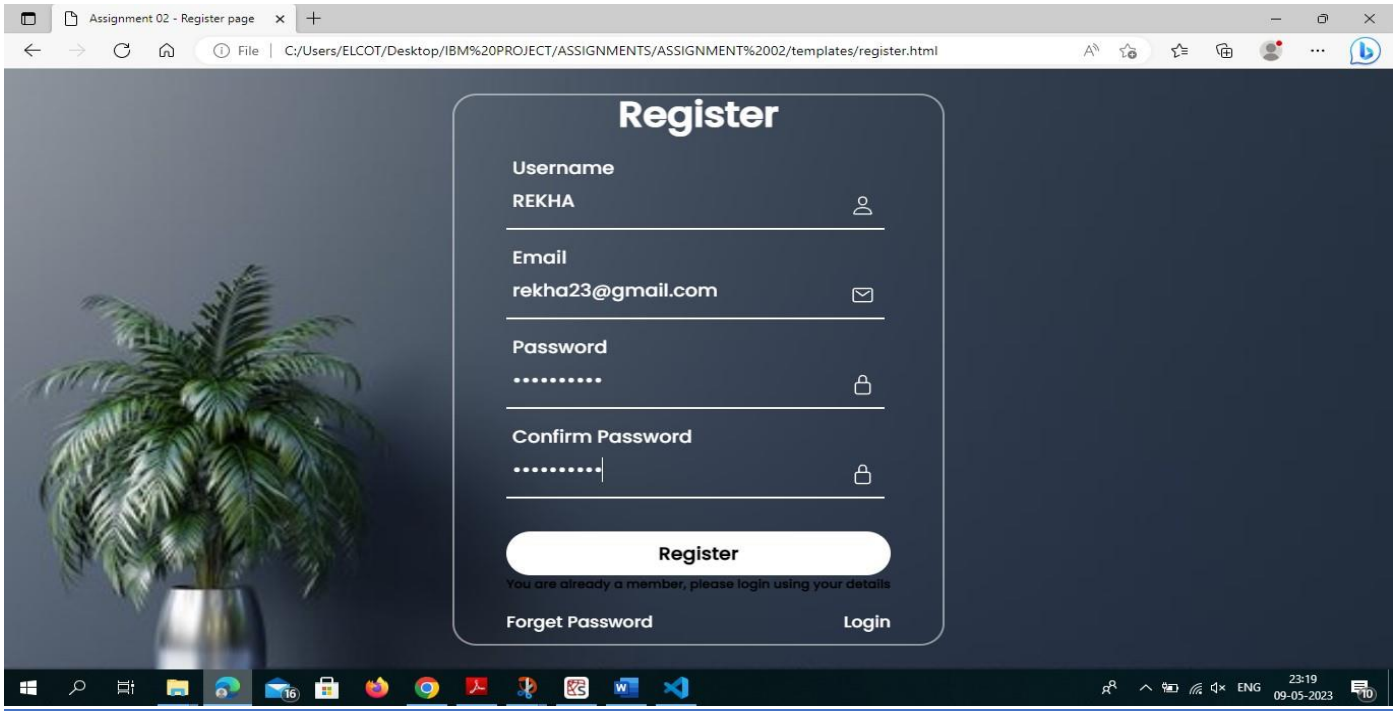
```
@app.route('/register')
def register():
    return render_template('register.html')

@app.route('/login1',methods=['POST'])
def login1():
    NAME = request.form['NAME']
    EMAIL = request.form['EMAIL']
    sql = "SELECT * FROM REGISTER WHERE EMAIL =? AND PASSWORD=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,EMAIL)
    ibm_db.bind_param(stmt,2,PASSWORD)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print (account)
    print(EMAIL,PASSWORD)
    if account:
            return render_template('login.html', pred="Login successful")
    else:
        return render_template('register.html', pred="Login unsuccessful. Please register!")


@app.route('/register1',methods=['POST'])
def register1():
    x = [x for x in request.form.values()]
    print(x)
    USERNAME=x[0]
    EMAIL=x[1]
    PASSWORD=x[2]
    CONFIRMPASSWORD=x[3]
    sql = "SELECT * FROM REGISTER WHERE EMAIL =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,EMAIL)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
        return render_template('login.html', pred="You are already a member, please login using your
details")
    else:
        insert_sql = "INSERT INTO  REGISTER VALUES (?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, NAME)
        ibm_db.bind_param(prep_stmt, 2, EMAIL)
        ibm_db.bind_param(prep_stmt, 3, PASSWORD)
        ibm_db.bind_param(prep_stmt, 4, CONFIRMPASSWORD)
```

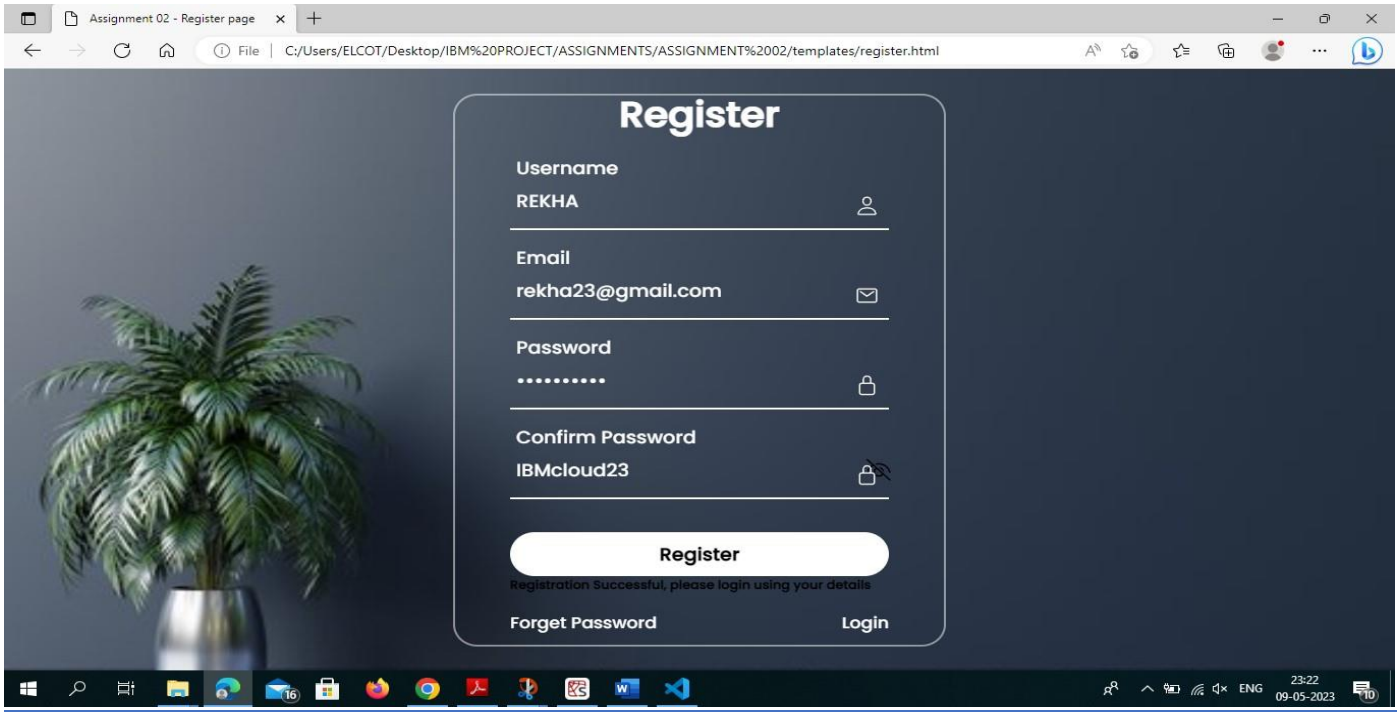
```
        ibm_db.execute(prep_stmt)
        return render_template('login.html', pred="Registration Successful, please login using your
details")


if _name_ == "_main_":
    app.run(debug=True,port = 1111)
```

OUTPUT SCREENSHOT






Assignment 02 - Register page
File | C:/Users/ELCOT/Desktop/IBM%20PROJECT/ASSIGNMENTS/ASSIGNMENT%2002/templates/register.html
Register
Username
REKHA
Email
rekha23@gmail.com
Password
Confirm Password
Register
You are already a member, please login using your details
Forget Password
Login
ENG
23:19
09-05-2023


Assignment 02 - Register page
File | C:/Users/ELCOT/Desktop/IBM%20PROJECT/ASSIGNMENTS/ASSIGNMENT%2002/templates/register.html
Register
Username
REKHA
Email
rekha23@gmail.com
Password
Confirm Password
IBMcloud23
Register
Registration Successful, please login using your details
Forget Password
Login
ENG
23:22
09-05-2023