

Assignment-2

Project Domain	Cloud Application Development
Project Title	Customer Care Registry.
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Date	03rd Oct 2022

Questions:

1. Create registration page in html with username, email, and phone number and by using POST method display it in next html page.
2. Develop a flask program which should contain at least 5 packages used from pypi.org.
3. Create User table with user with email, username, roll number, password. 4. Perform UPDATE, DELETE Queries with user table
5. Connect python code to db2.
6. 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.

Answers:

1. Create registration page in html with username, email, and phone number and by using POST method display it in next html page.

Login.html:

```
<html>
<body>
    <center>
        <form action = "http://localhost:3890/login" method = "post">
            <h1>
                Enter user Name:<input type = "text" name = "userName"/><br><br>
                Enter Email-id:<input type = "text" name = "emailId"/><br><br>
                Enter Phone      Number:<input      type    =      "text" name
"phoneNumber"/><br><br>
                <input type = "submit" value = "SUBMIT"/>
```

</h1>

</form>

=

</center>

</body>

</html>

Sample.py:

```
from flask import Flask, redirect, url_for, request
app = Flask(__name__)
```

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

```
def login(): if request.method == 'POST':
```

```
    user_name = request.form['userName']    email_id =
    request.form['emailId']    phone_number = request.form['phoneNumber']
```

```
    return '{}{}{}{}{}{}{}'.format("<center><h1>Your user    name is:
",user_name,"</h1><br><br><h2>Your email-id is: ",email_id,"</h2><br><br><h3>Your
phone number is: ",phone_number,"</h3></center>")
```

```
if __name__ == '__main__':
```

```
    app.run('127.0.0.1',3890)
```

Enter user Name:

Enter Email:

Enter Password:



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2. Develop a flask program which should contain at least 5 packages used from pypi.org.

Packages used:

Flask, emoji, matplotlib, numpy, translate, googlesearch

```

Packages.py: from flask
import Flask from emoji
import emojiize import
matplotlib.pyplot as plt
import numpy as np from
translate import Translator
from googlesearch import search

app=Flask(__name__)

@app.route('/') def login():  emojione=("Thumbs up emoji using the package
emoji:"+emojiize(":thumbs_up:"))

    x = [1,2,3]    y = [2,4,1]
plt.plot(x, y)    plt.xlabel('x -
axis')    plt.ylabel('y - axis')
plt.title('Using Matplotlib')
plt.show()    a = np.array([0,
np.pi/2, np.pi])

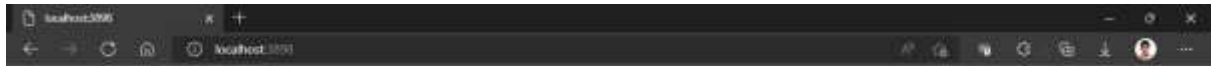
    translator= Translator(to_lang="ta")
translation =      ("English    to    Tamil translation    using the    package
translate:"+translator.translate("How are you?"))

    query = "IBM Cloud"    tmp=search(query, tld="co.in",
num=10, stop=10, pause=2)    res=[]    for i in tmp:
res.append(i+"\n")

    return
("<center>"+ "<h1>"+emojione+"</br></br></br>"+translation+"</br></br></br>"+str(np.
sin(a))+ "</h1></br></br></br>"+str(res)+"</center>")

if __name__ == '__main__':
    app.run('127.0.0.1',3898,debug=True)

```

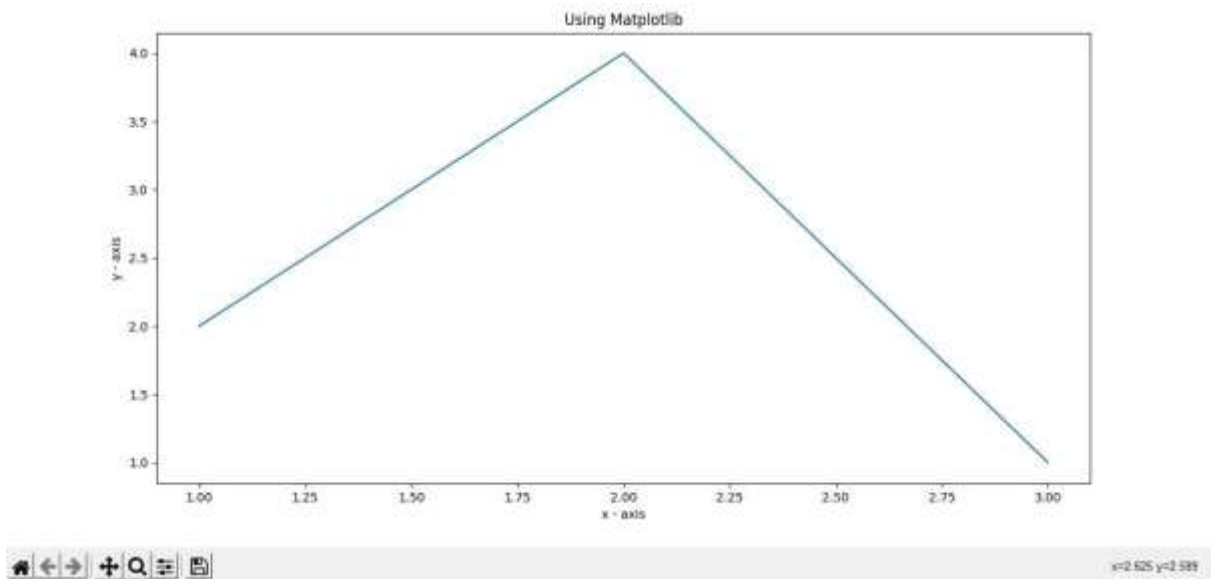


Thumbs up emoji using the package emoji:👍

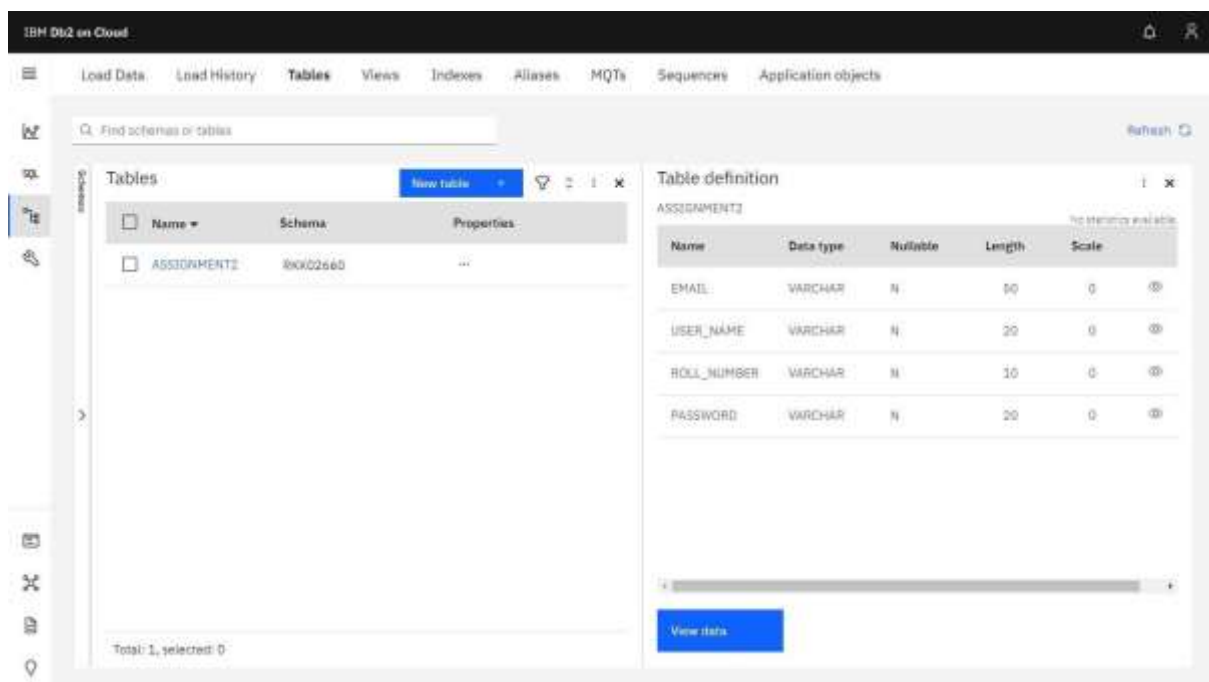
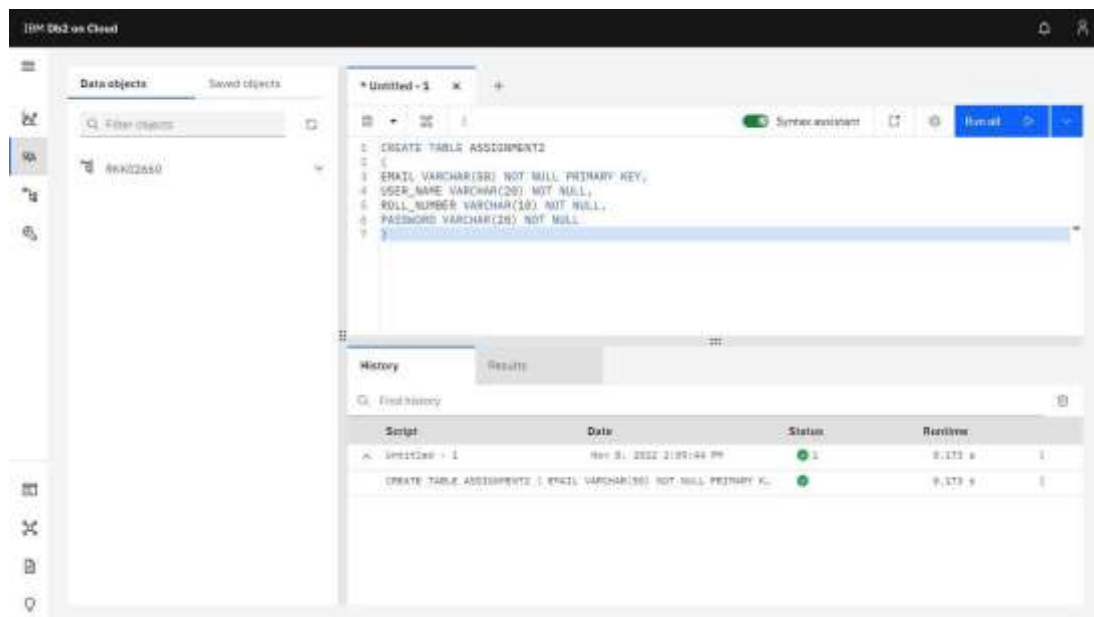
English to Tamil translation using the package translate:எப்படி இருக்கிறீங்க?

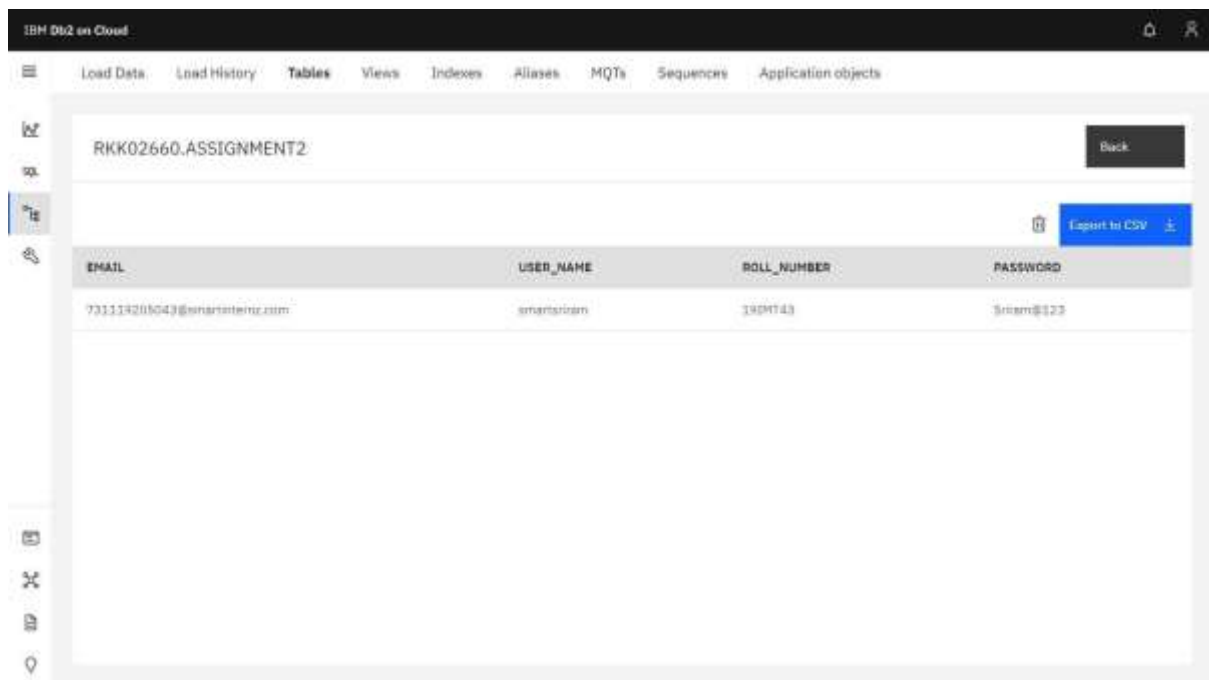
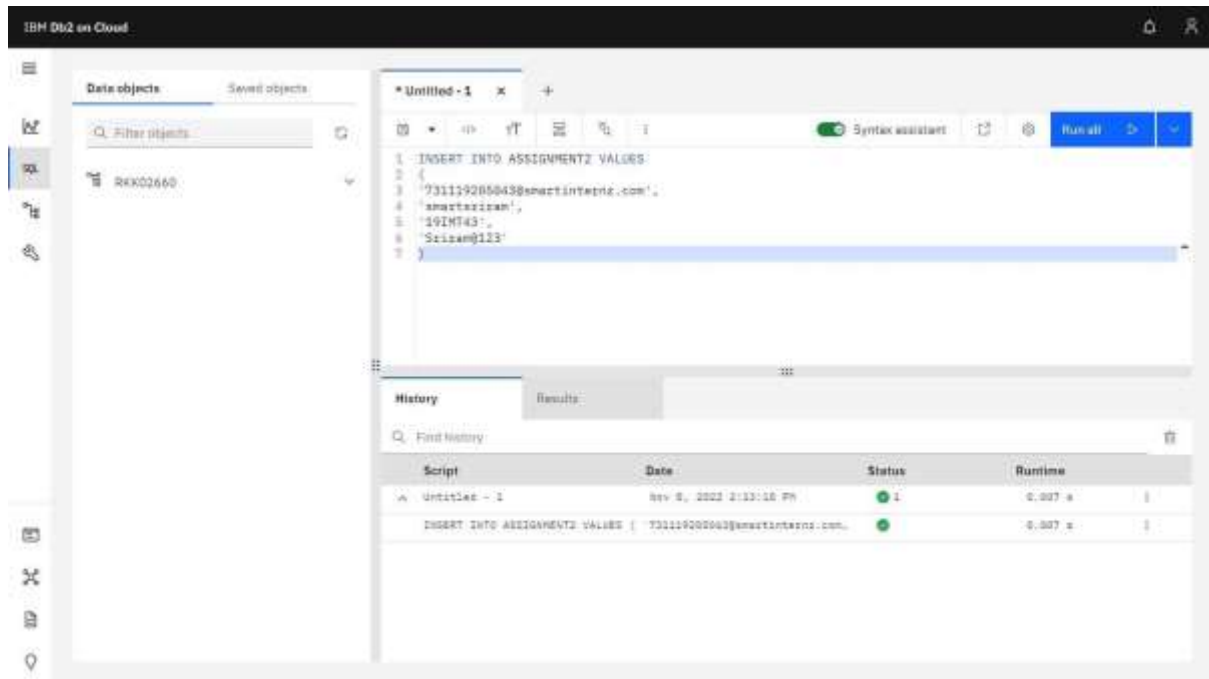
[0.0000000e+00 1.0000000e+00 1.2246468e-16]

[<https://www.ibm.com/en-in/cloud/n/>, <https://cloud.ibm.com/n/>, <https://www.ibm.com/cloud/n/>, <https://cloud.ibm.com/registration/n/>, <https://cloud.ibm.com/developer Watson/n/>, <https://cloud.ibm.com/docs/cloud-shell/topic/cloud-shell-getting-started-n/>, <https://www.ibm.com/cloud/free/n/>, <https://cloud.ibm.com/catalog/n/>, <https://www.ibm.com/cloud/why-ibm/n/>, <https://www.ibm.com/products/cloud-pak-for-data/n/>]



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





----- 4.Perform
UPDATE, DELETE Queries with user table

IBM Db2 on Cloud

Data objects Saved objects

Filter objects

RKK02660

```
1 UPDATE ASSIGNMENT2
2 SET ROLL_NUMBER='191MT48',PASSWORD='HeroSanthosh'
3 WHERE USER_NAME='smarterintez';
```

Syntax assistant Run all

History Results

Find history

Script	Date	Status	Runtime
Untitled - 1	Nov 5, 2022 2:27:28 PM	✓ 1	0.009 s
UPDATE ASSIGNMENT2 SET ROLL_NUMBER='191MT48',PASSWORD='HeroSanthosh'...		✓	0.009 s

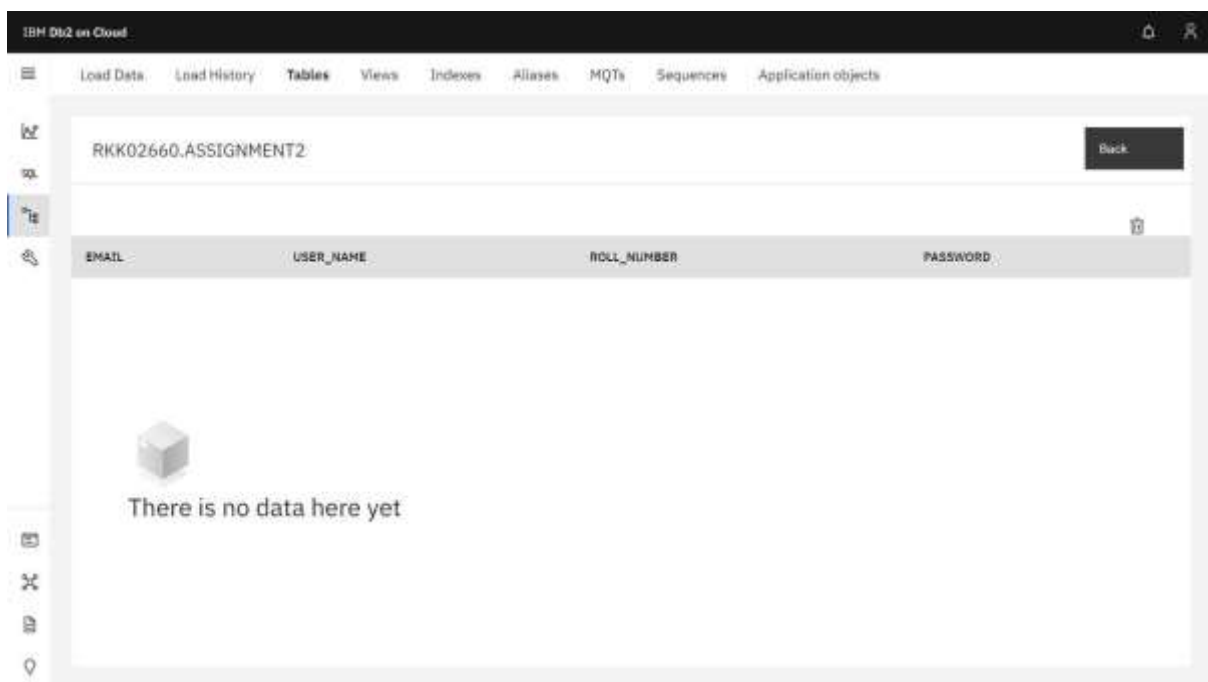
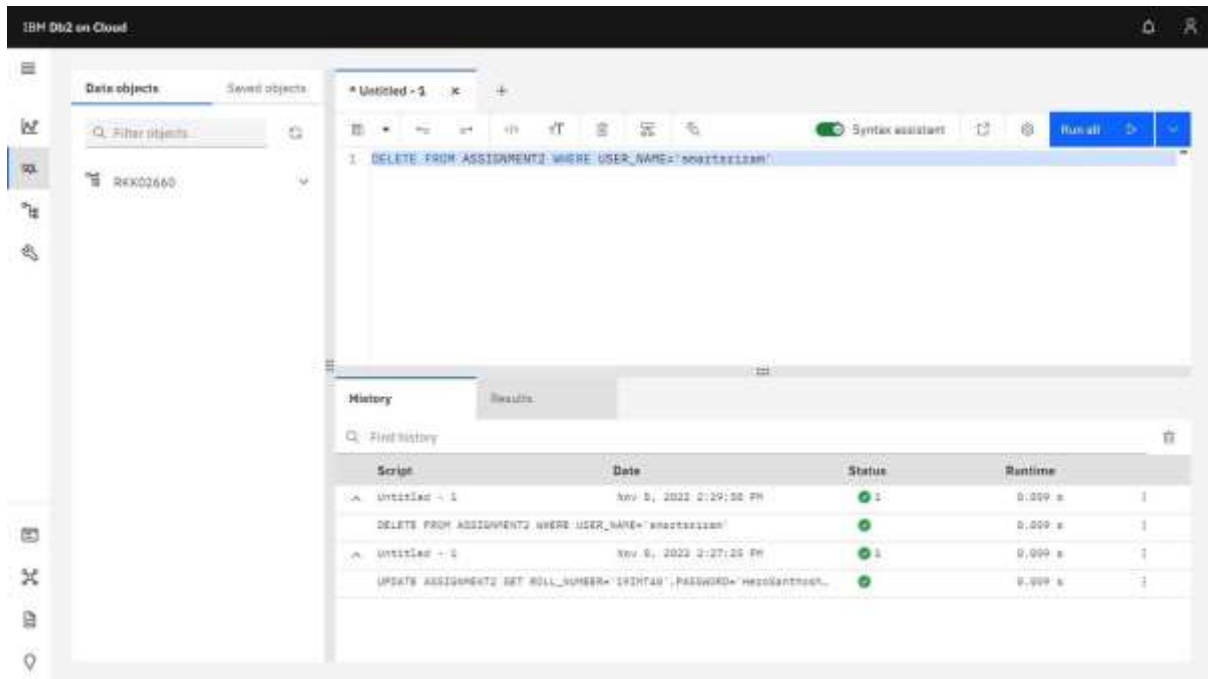
IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

RKK02660.ASSIGNMENT2 Back

Export to CSV

EMAIL	USER_NAME	ROLL_NUMBER	PASSWORD
731118205043@smarterintez.com	smarterintez	191MT48	HeroSanthosh



-
5. Connect python code to db2.
 6. 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

login.html: <html> <body>
<center>

```

        <form action = "http://localhost:3899/login" method = "post">
            <h1>
                Enter user Name:<input type = "text" name =
"username" required /><br><br>
                Enter Password:<input type = "text" name =
"password"/><br><br>
                <input type = "submit" value = "SUBMIT" name="submit"/><br><br>
                <a href="/regis">Click here to register</a>
            </h1>
        </form>
    </center>
</body>

```

```

</html>
register.html:
<html>
<body>

        <center>

                                <form action
=
"http://localhost:3899/register" method = "post">
                <h1>
                    Enter user Name:<input type = "text" name =
"username" required /><br><br>
                                Enter
Email:<input type =
"text" name =
"email"/><br><br>
                    Enter Password:<input type = "text"
name = "password"/><br><br>
                <input type = "submit" value = "SUBMIT"/>
                </h1>
                </form>
            </center>
        </body>
</html>

```

welcome.html:

```
<html>
<body>

        <center>
                

        </center>

</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
= 'abc'
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-
4883-
8fc0d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=3
132
1;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=*
*****;PWD=*****','') #Answer for Question(5)

@app.route('/')
```



```

def home():
    return
render_template('login.html')

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

@app.route('/login',methods=['GET','POST']) def
login():
    global userid
    msg=''
    if
request.method=='POST':
        username =
request.form['username']
        password =
request.form['password']
        sql = "SELECT * FROM User WHERE username = ? AND password =
?"
        stmt = ibm_db.prepare(conn,sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.bind_param(stmt,2,password)
ibm_db.execute(stmt)
        account =
ibm_db.fetch_assoc(stmt)
print(account)
        if account:
            msg='Logged in successfully!'
            return
render_template('welcome.html',msg=msg)
        else:
            return render_template('login.html')

@app.route('/register',methods=['GET','POST'])
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(conn,sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
print(account)
        if account:
            return
'{}'.format("Account already exist!")
else:

```

```

        insert_sql="INSERT INTO user VALUES(?, ?,
        ?)"
        prep_stmt=ibm_db.prepare(conn,insert_sql)
ibm_db.bind_param(prepare_stmt,1,username)
ibm_db.bind_param(prepare_stmt,2,email)
ibm_db.bind_param(prepare_stmt,3,password)
ibm_db.execute(prepare_stmt)
        msg="You have
        successfully registered"
        return render_template('login.html',msg=msg)

if __name__ == '__main__':
app.run('127.0.0.1',3899)

```



Enter user Name:

Enter Password:

[Click here to register](#)

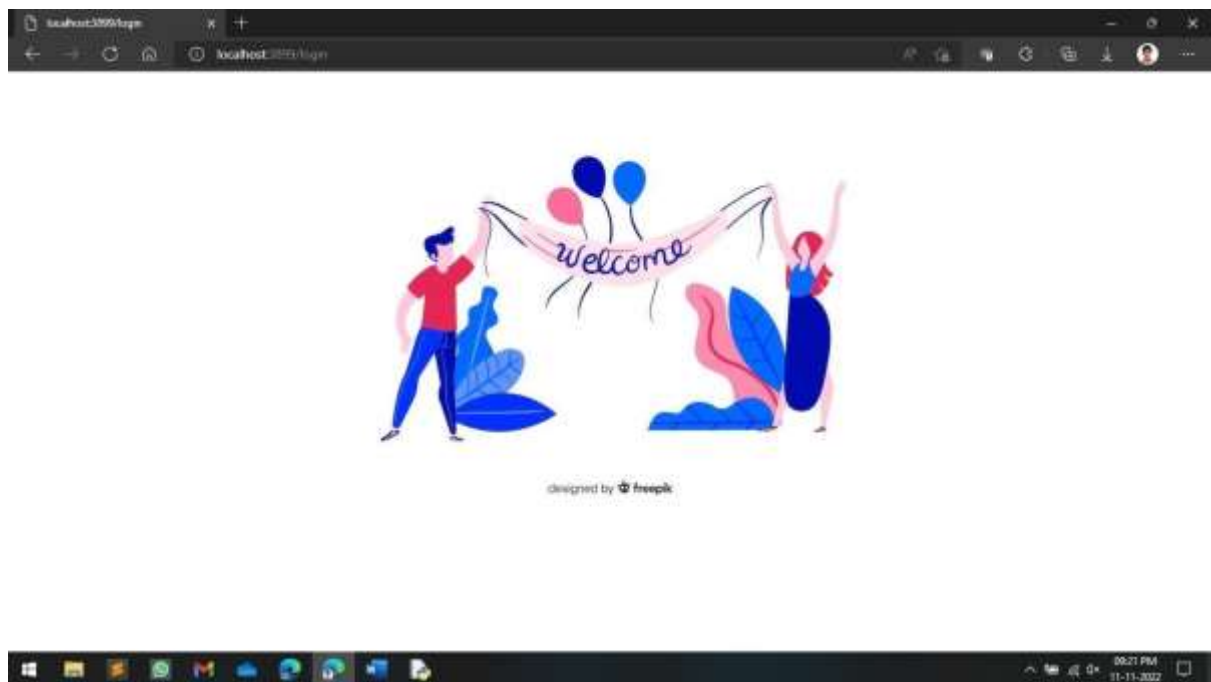
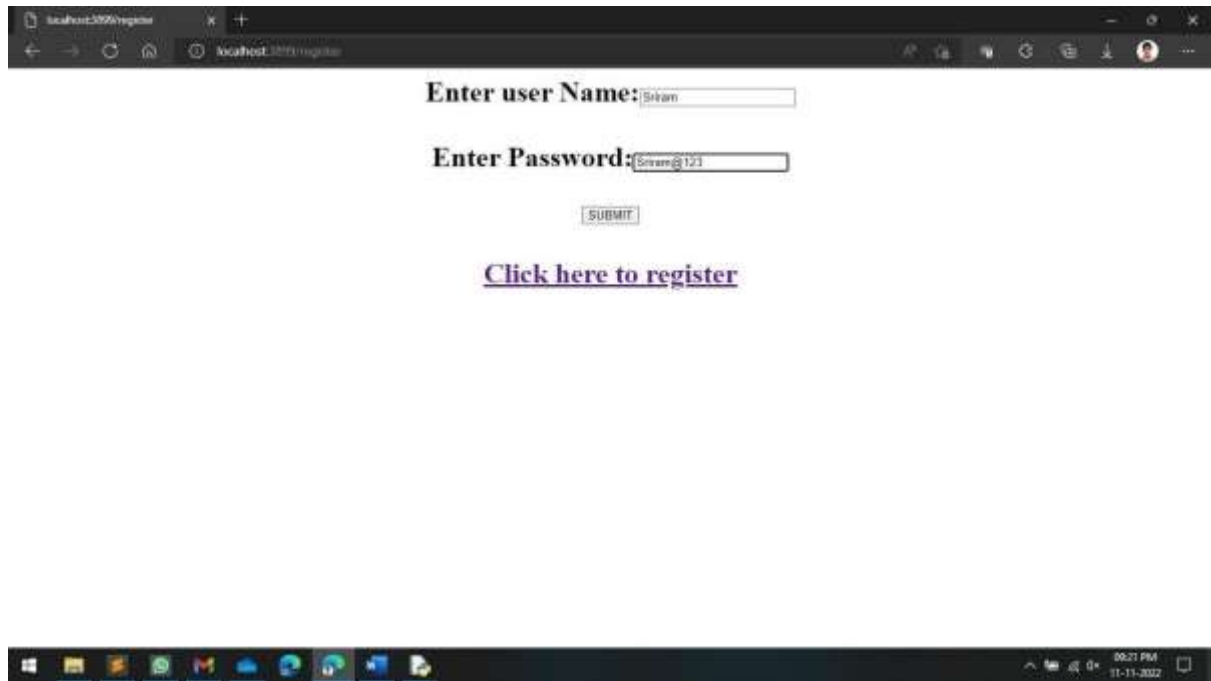


Enter user Name:

Enter Email:

Enter Password:





IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

Find schemas or tables

Refresh

Tables

New table

Name	Schema	Properties
ASSIGNMENT2	RKK02660	...
USER	RKK02660	...

Total: 2, selected: 0

Table definition

USER

No metadata available

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

View data

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

RKK02660.USER

Back

Export to CSV

USERNAME	EMAIL	PASSWORD
Shrini	shrini@gmail.com	Shrini@123
Sharan	sharan@gmail.com	Sharan
qwe	q	sdaf
