ASSINGMENT -2

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

```
CREATE TABLE user (  roll_number int,
username
varchar(300),     email varchar(300),
password varchar(300)
);
```

2. Perform UPDATE, DELETE Queries with user table INSERT Statement:

```
INSERT INTO user
( roll_number, username ,email, password)  VALUES
(1, 'sineka', 'sineka@gmail.com','sineka007'),
(2, 'gayathiri', 'gayathiri@gmail.com','gayathiri007'),
(3, 'geetha', 'geetha@gmail.com', 'geetha123'),
(4, 'monisha', 'monisha@gmail.com', 'monisha23');
```

UPDATE Statement:

```
UPDATE users
SET username = 'monisha'
WHERE roll_number = '4'
```

DELETE Statemnet:

```
insert into user  values(4,'aa','aaa@gmail.com','aasdfg2') ; delete  from
user where roll_number='4'
```

3.Connect python with db2 conn =

ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-

99de-440d-9991-
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;P
ORT=3
0119;SECURITY=SSL
;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lvq43963;PWD
=B snsG1l2sBgIRhVN",' ',")

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

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

session from flask_mysqldb import MySQL import

MySQLdb.cursors import reapp =

Flask(__name__) app.secret_key

= 'your secret key' app.config['MYSQL_HOST'] = 'localhost'

app.config['MYSQL_USER'] = 'root'

app.config['MYSQL_PASSWORD'] = 'your password'

app.config['MYSQL_DB'] = 'geeklogin' mysql =

MySQL(app)

@app.route('/')

@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 accounts WHERE username = % s
AND password = % s', (username,
password, ))                account =
cursor.fetchone()           if account:
session['loggedin'] = True                  session['id'] =
account['id']           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' and 'username' in request.form and
'password'  in request.form and 'email' in
request.form :  username = request.form['username']
password = request.form['password']      email =
request.form['email']
```

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

cursor.execute('SELECT * FROM accounts WHERE username = % s',

(username,)) account = cursor.fetchone()

if account:

msg = 'Account already exists !' elif not re.match(r'[^@]+@[^@]+\.[^@]+', email): msg = 'Invalid email address !' elif not re.match(r'[A-Za-z09]+', 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:

cursor.execute('INSERT INTO accounts VALUES (NULL, % s, % s, % s)', (username, password, email,))

mysql.connection.commit() msg = 'You have

successfully registered !' elif request.method == 'POST':

msg = 'Please fill out the form !' return render_template('register.html', msg = msg)