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, Lavanya','chitralava2001@gmail.com','Deepanya@2005'),

(2,'Pavatharani','pavatharanipraveenp@gmail.com','pa

va2002'),

(3,'Rajesh''rajeshmadeshcse@gmail.com','Sathyavani

@2001'),

(4, 'velmurugan', 'velm8716@gmail.com', 'velu2001');

UPDATE Statement:

UPDATE users

SET username = 'pavatharani'

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)
```