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 = 'sineka'
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;PORT=30119;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)