ASSIGNMENT 2

Team ID	PNT2022TMID44963
Student Name	SARANYA P
Student Roll Number	811219104020
Maximum Marks	2 Marks

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

2. Perform UPDATE,DELETE Queries with user table

```
Query OK, 1 row affected (0.05 sec)

mysql> insert into kalai values('nancy@gmail.com','nancy','81','nancy123');
Query OK, 1 row affected (0.16 sec)

mysql> select* from kalai;
+-------------------+----------+------------+-----------+
| email             | username | rollnumber | password  |
+-------------------+----------+------------+-----------+
| kalai@gmail.com   | kalai    |         11 | kalai123  |
| saranya@gmail.com | saran    |         51 | saran#123 |
| ravinya@gmail.com | ravinya  |         21 | ravinya123|
| nancy@gmail.com   | nancy    |         81 | nancy123  |
+-------------------+----------+------------+-----------+
4 rows in set (0.00 sec)

mysql> update kalai set rollnumber='23' where username='nancy';
Query OK, 1 row affected (0.14 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select* from kalai;
+-------------------+----------+------------+-----------+
| email             | username | rollnumber | password  |
+-------------------+----------+------------+-----------+
| kalai@gmail.com   | kalai    |         11 | kalai123  |
| saranya@gmail.com | saran    |         51 | saran#123 |
| ravinya@gmail.com | ravinya  |         21 | ravinya123|
| nancy@gmail.com   | nancy    |         23 | nancy123  |
+-------------------+----------+------------+-----------+
4 rows in set (0.00 sec)

mysql> delete from kalai where rollnumber='23';
Query OK, 1 row affected (0.12 sec)

mysql> delete from kalai where username='ravinya';
Query OK, 1 row affected (0.07 sec)

mysql> select* from kalai;
+-------------------+----------+------------+-----------+
| email             | username | rollnumber | password  |
+-------------------+----------+------------+-----------+
| kalai@gmail.com   | kalai    |         11 | kalai123  |
| saranya@gmail.com | saran    |         51 | saran#123 |
+-------------------+----------+------------+-----------+
2 rows in set (0.00 sec)
```

3. Connect python code to db2

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=kkg19429;PWD=lMeBV7y3lthDYaeo","","")

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 the database and navigate to the login page to authenticate user username and password. If the user is valid show the welcome page

app.py
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db import re

app = Flask(__name__) app.secret_key = 'a' conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=wtj80289;PWD=XXs

```python
OJs4580eCvsJP","",'')
@app.route('/') def
home():
    return render_template('register.html') @app.route('/login', methods =['GET',
'POST']) def login(): global userid msg = '' if request.method == 'POST'and
'username' in request.form and 'password' in
request.form:
        username = request.form['username'] password = request.form['password']
        stmt = ibm_db.prepare(conn,'SELECT * FROM accounts WHERE username
        =
? AND password = ?')
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt) account =
        ibm_db.fetch_assoc(stmt) if account:
            session['loggedin'] = True 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':
        username = request.form['username'] password =
        request.form['password'] email = request.form['email'] sql
        = "SELECT * FROM accounts 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:
            msg = 'Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', username): msg = 'Username
            must contain only characters and numbers !'
```

```python
        elif not username or not password or not email:
            msg = 'Please fill out the form !'
        else:
            insert_sql = "INSERT INTO accounts VALUES (?, ?,
            ?)" stmt = ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(stmt, 1, username)
            ibm_db.bind_param(stmt, 2, password)
            ibm_db.bind_param(stmt, 3, email)
            ibm_db.execute(stmt) msg = 'You have successfully
            registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'

    return render_template('register.html', msg = msg)
if __name__ == '__main__':
    app.run(debug = True) index.html
```

index.html

```html
<html>
    <head>
        <meta charset="UTF-8">
        <title> Index </title>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
    </head>
    <body></br></br></br></br></br>
        <div align="center">
          <div align="center" class="border">
            <div class="header">
              <h1 class="word">Index</h1>
            </div></br></br></br>
              <h1 class="bottom">
                  Hi {{session.username}}!!</br></br> Welcome to the index page...
              </h1></br></br></br>
              <a href="{{ url_for('logout') }}" class="btn">Logout</a>
          </div>
        </div>
    </body>
</html>
```

register.html

```html
<html>
    <head>
        <meta charset="UTF-8">
```

```html
    <title> Register </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
      <div align="center" class="border">
        <div class="header">
          <h1 class="word">Register</h1>
        </div></br></br></br>
        <h2 class="word">
          <form action="{{ url_for('register') }}" method="post">
            <div class="msg">{{ msg }}</div>
            <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>
            <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br>
            <input id="email" name="email" type="text" placeholder="Enter Your Email ID" class="textbox"/></br></br>
            <input type="submit" class="btn" value="Sign Up"></br>
          </form>
        </h2>
        <p class="bottom">Already have an account?  <a class="bottom" href="{{url_for('login')}}"> Sign In here</a></p>
      </div>
    </div>
  </body>
</html>
```

login.html

```html
<html>
  <head>
    <meta charset="UTF-8">
    <title> Login </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
      <div align="center" class="border">
        <div class="header">
          <h1 class="word">Login</h1>
        </div></br></br></br>
        <h2 class="word">
```

```
            <form action="{{ url_for('login') }}" method="post">
              <div class="msg">{{ msg }}</div>
                <input id="username" name="username" type="text" placeholder="Enter
Your Username" class="textbox"/></br></br>
                <input id="password" name="password" type="password"
placeholder="Enter Your Password" class="textbox"/></br></br></br>
                <input type="submit" class="btn" value="Sign In"></br></br>
            </form>
          </h2>
          <p class="bottom">Don't have an account?  <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>
        </div>
      </div>
    </body>
</html>
```

style.css

```
.header{ padding: 5px 120px; width:
      150px; height: 70px;
      background-color: #236B8E;
    }


    .border{ padding: 80px 50px;
       width: 400px; height: 450px;
       border: 1px solid #236B8E;
       border-radius: 0px;
       background-color:
       #9AC0CD;
    }


    .btn { padding: 10px 40px;
       background-color:
       #236B8E; color: #FFFFFF;
       font-style: oblique; font-
       weight: bold; border-radius:
       10px;
    }


    .textbox{ padding: 10px 40px;
       background-color:
       #236B8E; text-color:
       #FFFFFF; border-radius:
       10px;
    }
```

```css
::placeholder { color:
    #FFFFFF;
    opacity: 1; font-
    style: oblique;
    font-weight: bold;
}

.word{ color:
    #FFFFFF; font-
    style: oblique;
    font-weight: bold;
}

.bottom{ color:
    #236B8E; font-
    style: oblique;
    font-weight: bold;
}
```