Assignment - 3

Assignment Date	29 September 2022
Student Name	Tony Christopher J
Student Roll No	812419104071
Maximum Marks	2 Marks

Question-1:

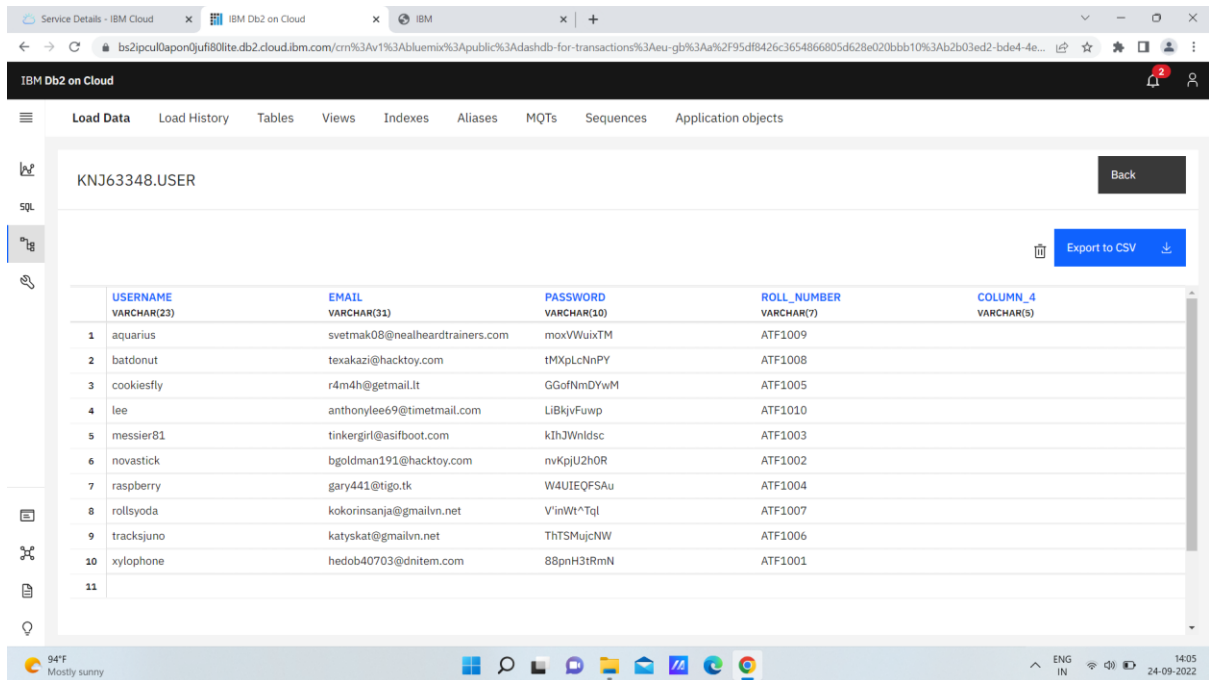Create User table with user email, username, roll number, password.

Solution:

Excel comma file

User table in Db2

Data in User table

Question-2:

Perform INSERT, SELECT, DELETE Queries in user table

Solution:

Insert Query

Insert Query Output

Update Query

Update Query Output

Delete Query


```sql
DELETE FROM user
    WHERE Username = 'db2class';
```

Delete Query Output

Question-3:

Connect Python to DB2

Solution:

Source Code for Python to DB2 Connection
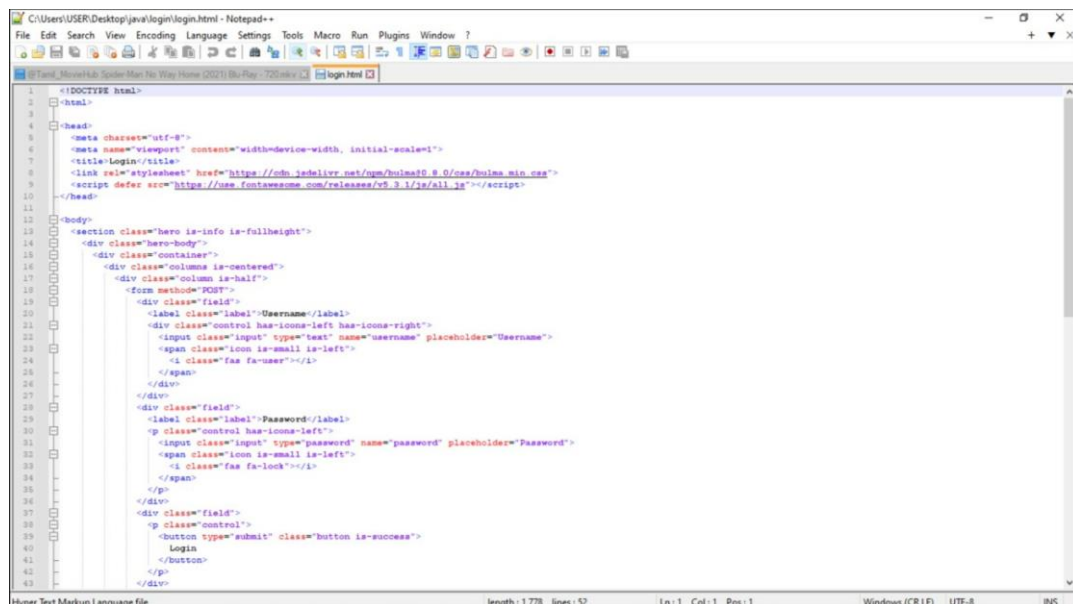
Question-4:

Create a flask app with 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

Solution:

Source code for login page

Source code for welcome page


```html
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Profile Page</title>
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bulma@0.8.0/css/bulma.min.css">
    <script defer src="https://use.fontawesome.com/releases/v5.3.1/js/all.js"></script>
  </head>
  <body>
    <section class="hero is-success is-fullheight">
      <div class="hero-body">
        <div class="container">
          <h1 class="title">
            {{g.user.username}}'s Profile
          </h1>
          <h2 class="subtitle">
            You are user number #{{g.user.id}}
          </h2>
        </div>
      </div>
    </section>
  </body>
</html>
```

Flask code

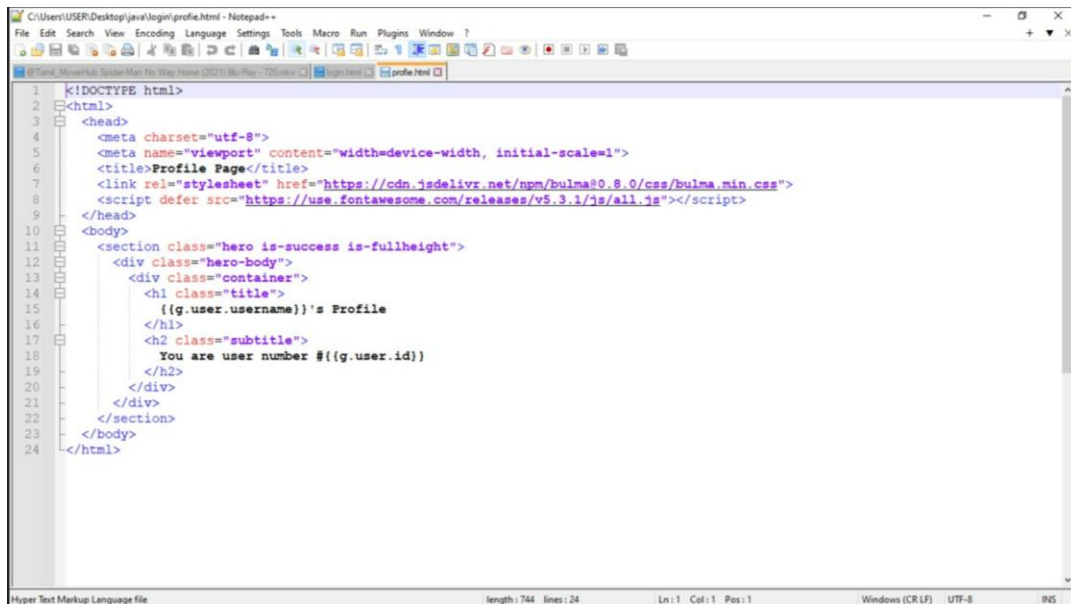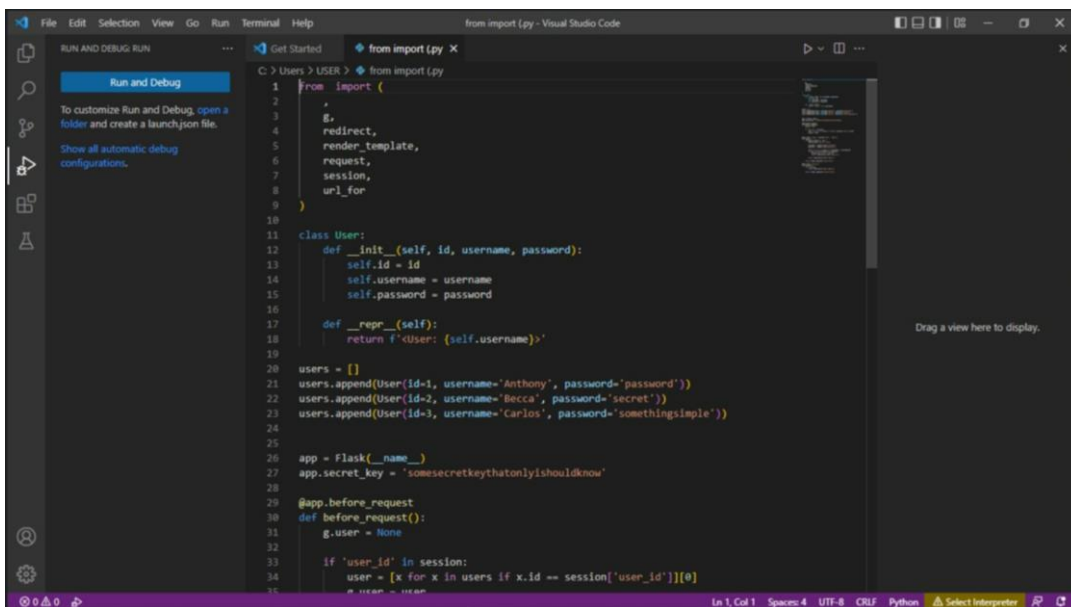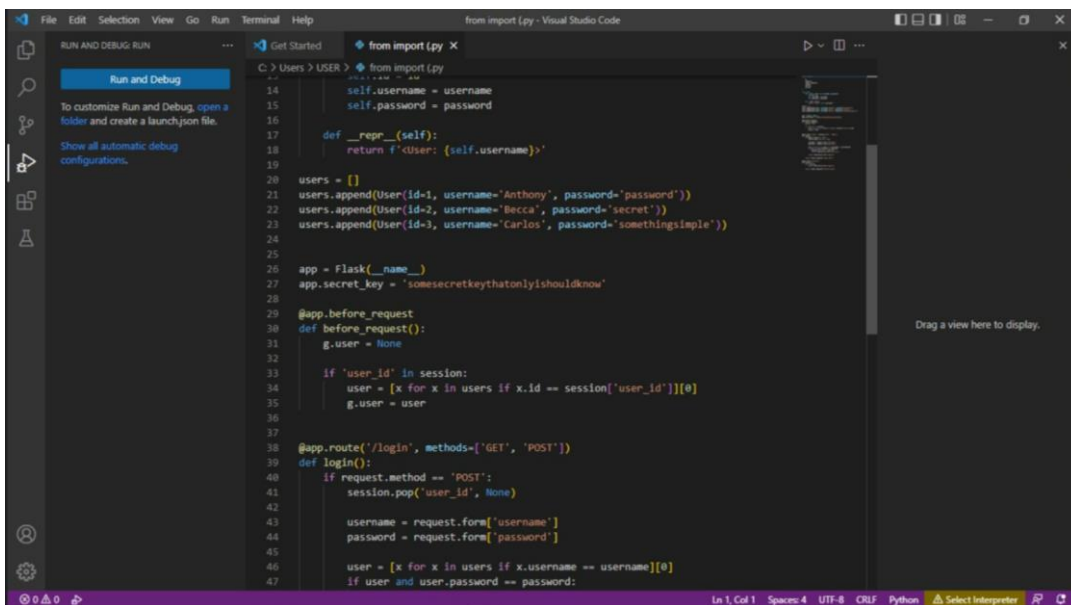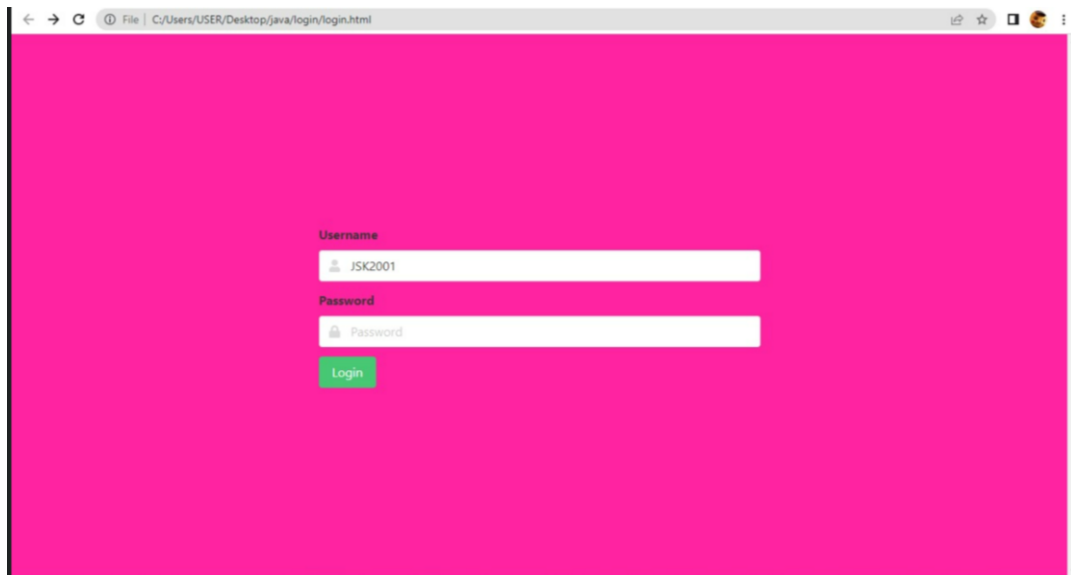```python
from import (
    *,
    g,
    redirect,
    render_template,
    request,
    session,
    url_for
)

class User:
    def __init__(self, id, username, password):
        self.id = id
        self.username = username
        self.password = password

    def __repr__(self):
        return f'<User: {self.username}>'

users = []
users.append(User(id=1, username='Anthony', password='password'))
users.append(User(id=2, username='Becca', password='secret'))
users.append(User(id=3, username='Carlos', password='somethingsimple'))

app = Flask(__name__)
app.secret_key = 'somesecretkeythatonlyishouldknow'

@app.before_request
def before_request():
    g.user = None

    if 'user_id' in session:
        user = [x for x in users if x.id == session['user_id']][0]
        g.user = user
```

## Flask code



```python
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        self.password = password

    def __repr__(self):
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    g.user = None

    if 'user_id' in session:
        user = [x for x in users if x.id == session['user_id']][0]
        g.user = user


@app.route('/login', methods=['GET', 'POST'])
def login():
    if request.method == 'POST':
        session.pop('user_id', None)

        username = request.form['username']
        password = request.form['password']

        user = [x for x in users if x.username == username][0]
        if user and user.password == password:
```
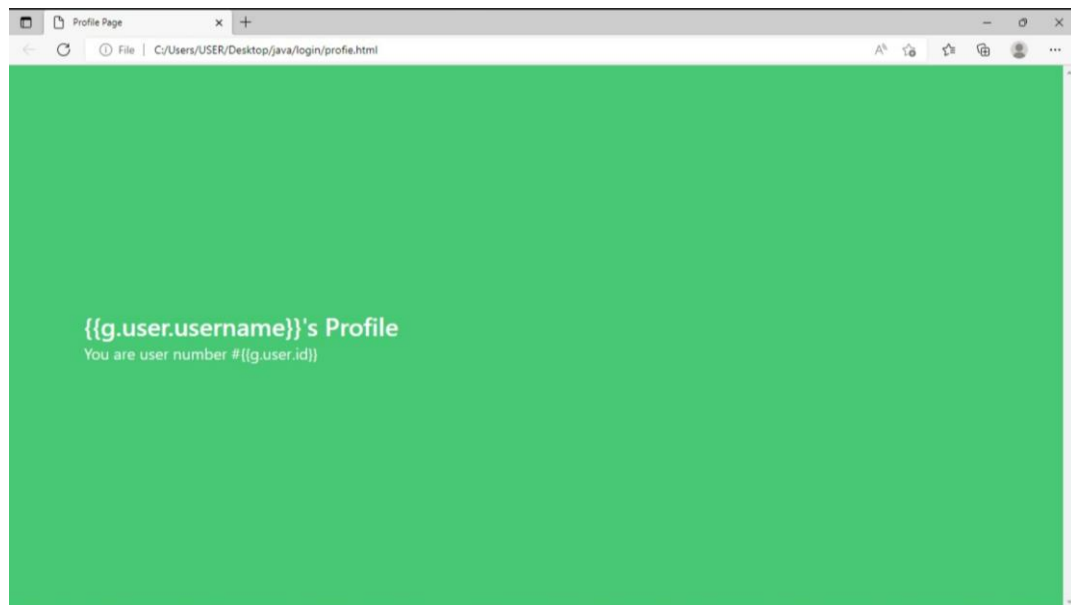
Login Page Output

Welcome Page Output