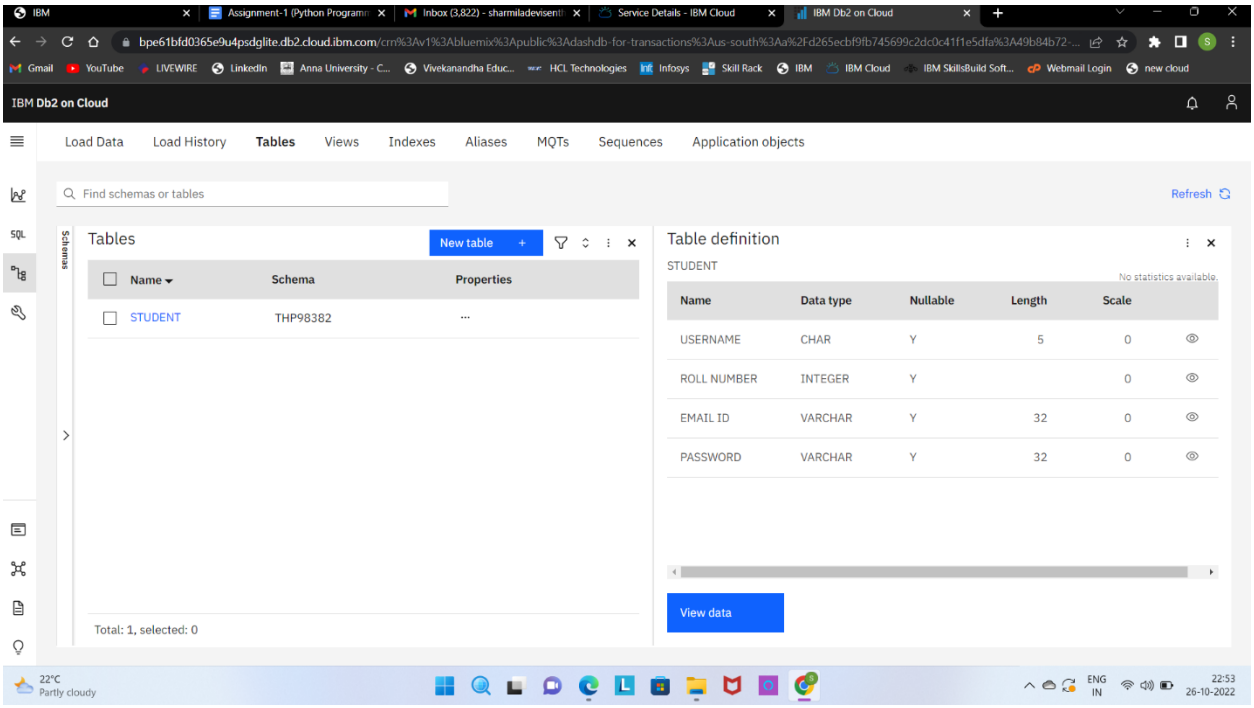
Assignment -2

IBM CLOUD DB2

Assignment Date	29 September 2022
Student Name	VIMALA M
Student Roll Number	613019106074
Maximum Marks	2 Marks

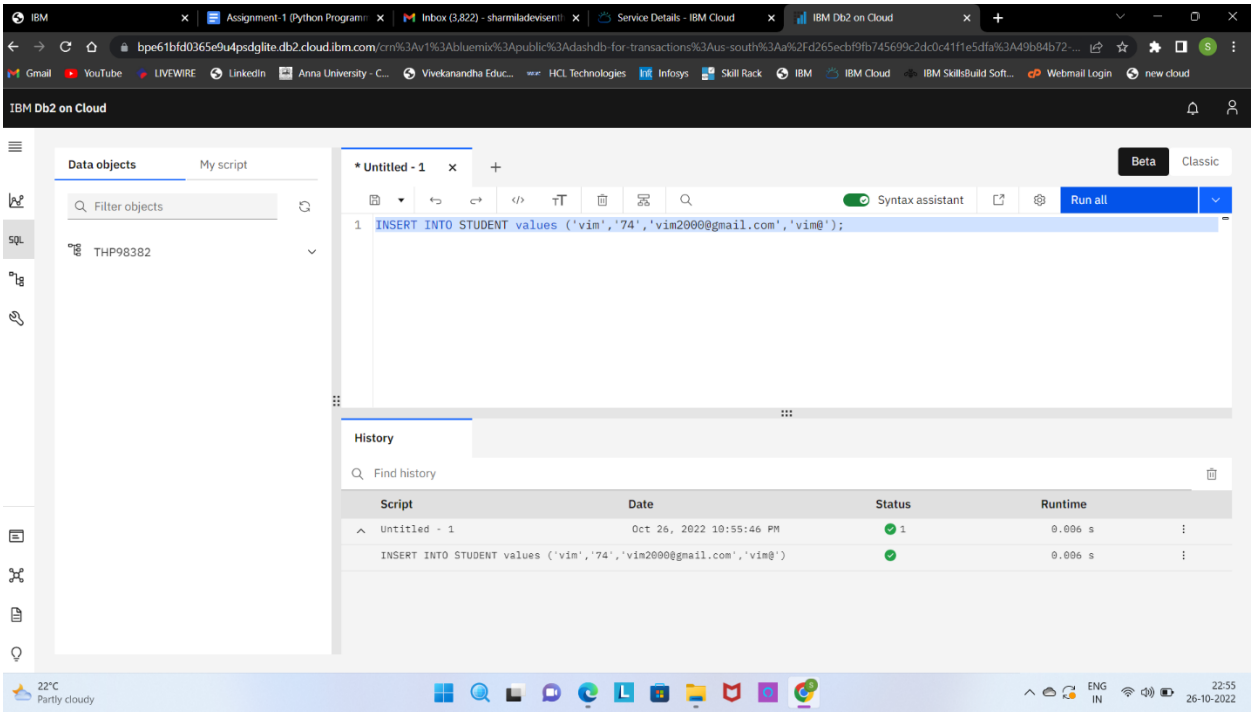
Questions:

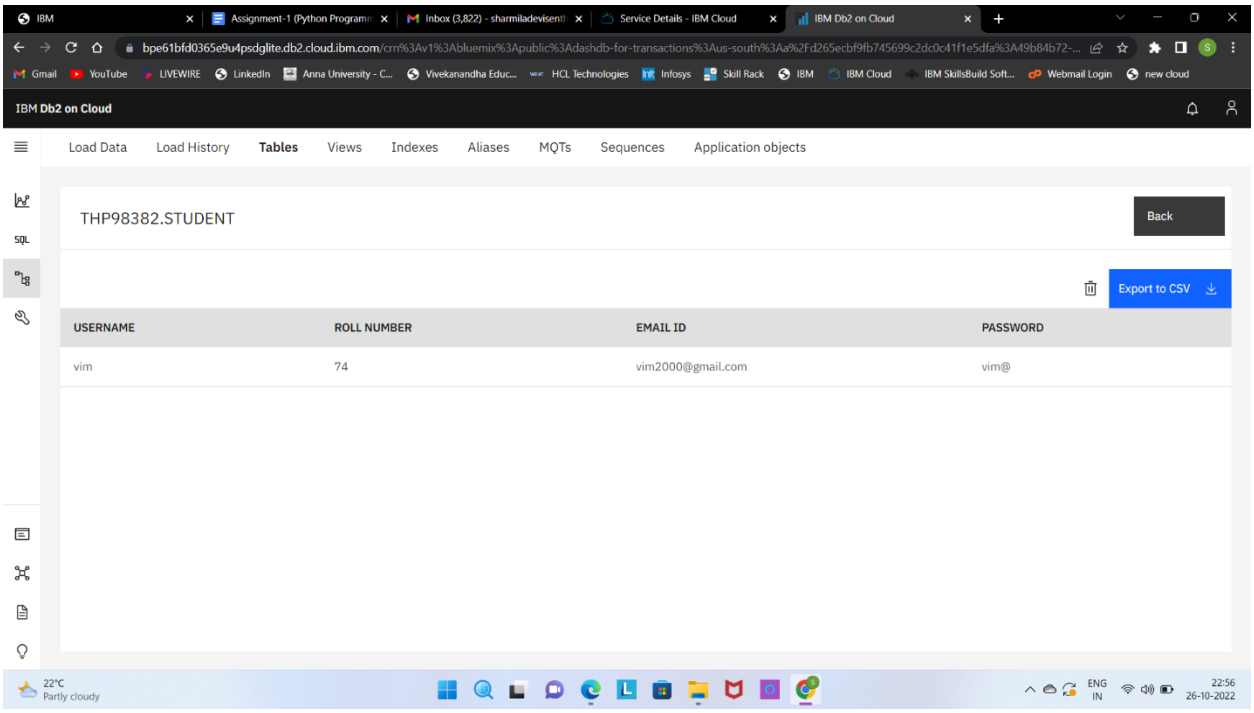
- Create a User table with the user with email, username, roll number, and password.



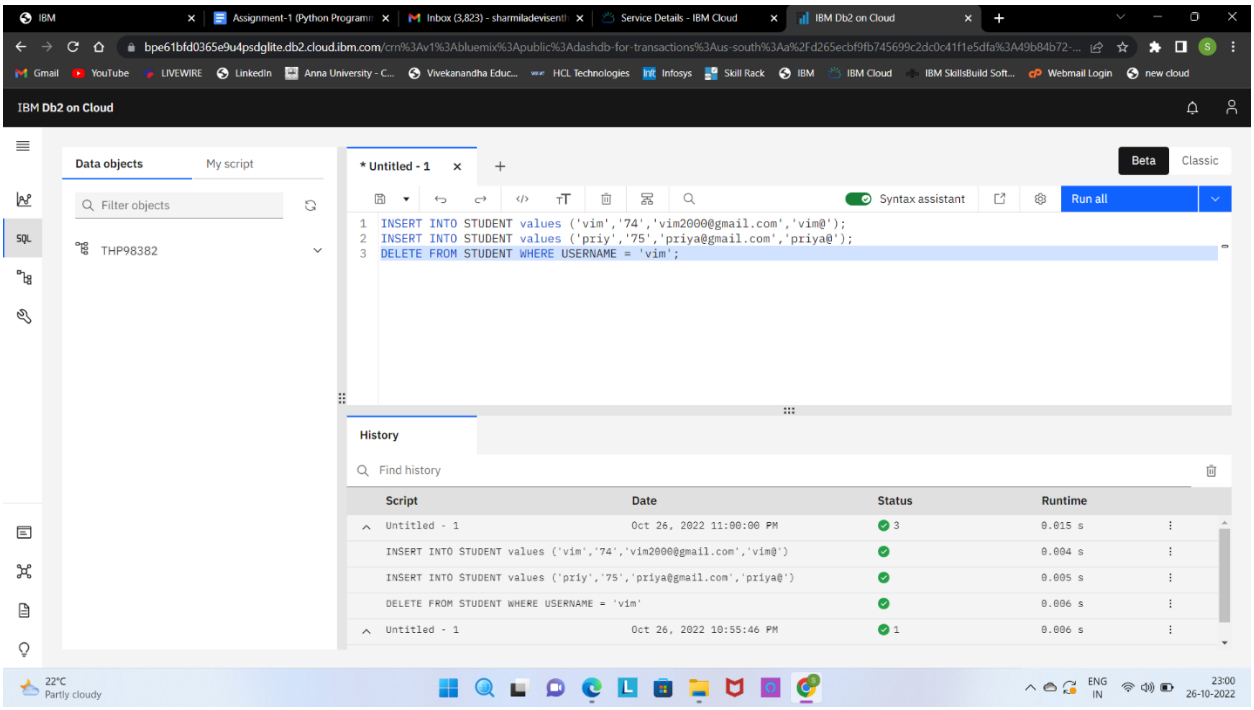
- Perform UPDATE, and DELETE Queries with the user table.

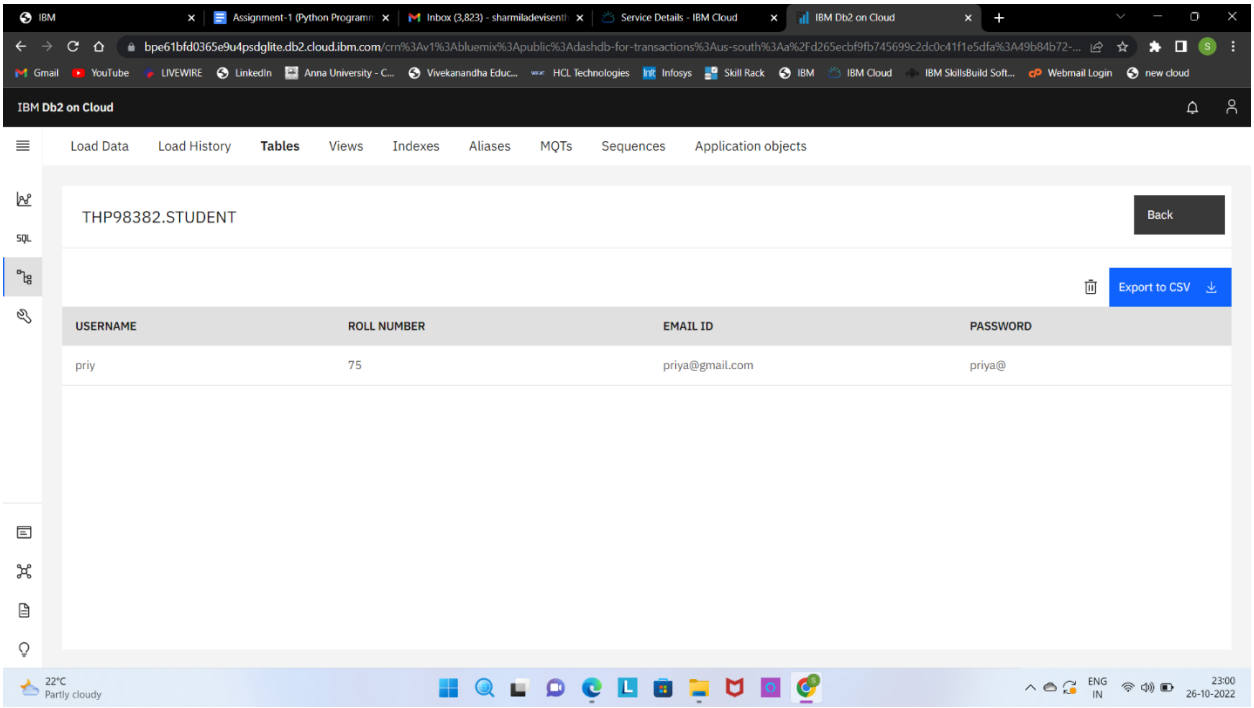
UPDATE TABLE :-





DELETE TABLE :-





3. CONNECT PYTHON CODE TO DB2.
NOTE :- Question 4 contains Question 3 answer

4. Create a flask app with a 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's username and password. If the user is valid show the welcome page

Answers

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=Db2New;HOSTNAME=19af6446-6171-4641-8aba-
9dcff8e1b6ff.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30699;USERNAM
E=kgb92696;PASSWORD=3IlWyGYU3bMIvwnX;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.crt;", "", "")

@app.route("/", methods=['GET', 'POST'])
def register():     msg = ''     if
request.method == 'POST':
        username = request.form['username']
email = request.form['email']         password =
request.form['password']         sql = "SELECT * FROM
users 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 = 'name must contain only characters and numbers !'
        else:
            insert_sql = "INSERT INTO  users VALUES (?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)             msg = 'You have
successfully registered !'     elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render_template('register.html', msg=msg)

@app.route('/login', methods=['GET', 'POST'])
def login():     global userid     msg = ''
     if request.method ==
'POST':
        username = request.form['username']         password =
request.form['password']         sql = "SELECT * FROM users WHERE
username =? AND password=?"         stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)         ibm_db.bind_param(stmt,
```

```
2, password)          ibm_db.execute(stmt)          account =
ibm_db.fetch_assoc(stmt)          print(account)          if account:
            session['loggedin'] = True
session['id'] = account['USERNAME']
userid = account['USERNAME']
session['username'] = account['USERNAME']
msg = 'Logged in successfully !'

            msg = 'Logged in successfully !'
return render_template('dashboard.html', msg=msg)
else:
            msg = 'Incorrect username / password !'
return render_template('login.html', msg=msg)


if __name__ == '__main__':
app.run(host='0.0.0.0')
    # app.run(debug=True)
```

Register.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>News Tracker Application</title>


    <!-- bootstrap css cdn -->     <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-
awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="Style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
```

```
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
    <!-- bootstrap navbar -->
    <!-- navbar ends -->
    <!-- Login form -->
    <div class="login text-center mt-5">
        <form action="/" method="post">
            <h2 class="form-text-h2"> Register Form </h2>
            <div class="msg">{{ msg }}</div>
            <input type="text" class="form-control" name="username"
placeholder="Enter Your Username" id="username"
required>
            <input type="email" class="form-control" name="email"
placeholder="Enter Your Email ID" id="email" required>
            <input type="password" class="form-control" name="password"
placeholder="Enter Your Password" id="password"
required>
            <button type="submit" id="button" class="btn btn-primary">
Register </button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                <p>  already  have  an  account  ?  please  login  <a
href="/login">login! </a> </p>

            </div>
        </form>

    </div>


</body>
</html>
```

Login.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Plasma Donor Application Login</title>
    <!-- favicon -->
```

```
    <!--    <link    rel="shortcut    icon"    href="/assets/img/favicon.ico"
type="image/x-icon"> -->
    <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
-->
    <link          rel="icon"          type="image/png"          sizes="16x16"
href="/assets/img/favicon32x32.png">
    <!-- bootstrap css cdn -->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/font-
awesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>

    <div class="login text-center mt-5">

        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-control" placeholder="Username"
name="username" required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password" class="form-control"
placeholder="Password" name="password" required>
            </div>

            <button type="submit" id="button" class="btn btn-primary"> Login
```

```
</button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                <p> Don't have an account yet? Click here to <a
href="/">register! </a> </p>             </div>
        </form>
    </div>


</body>
</html>
```

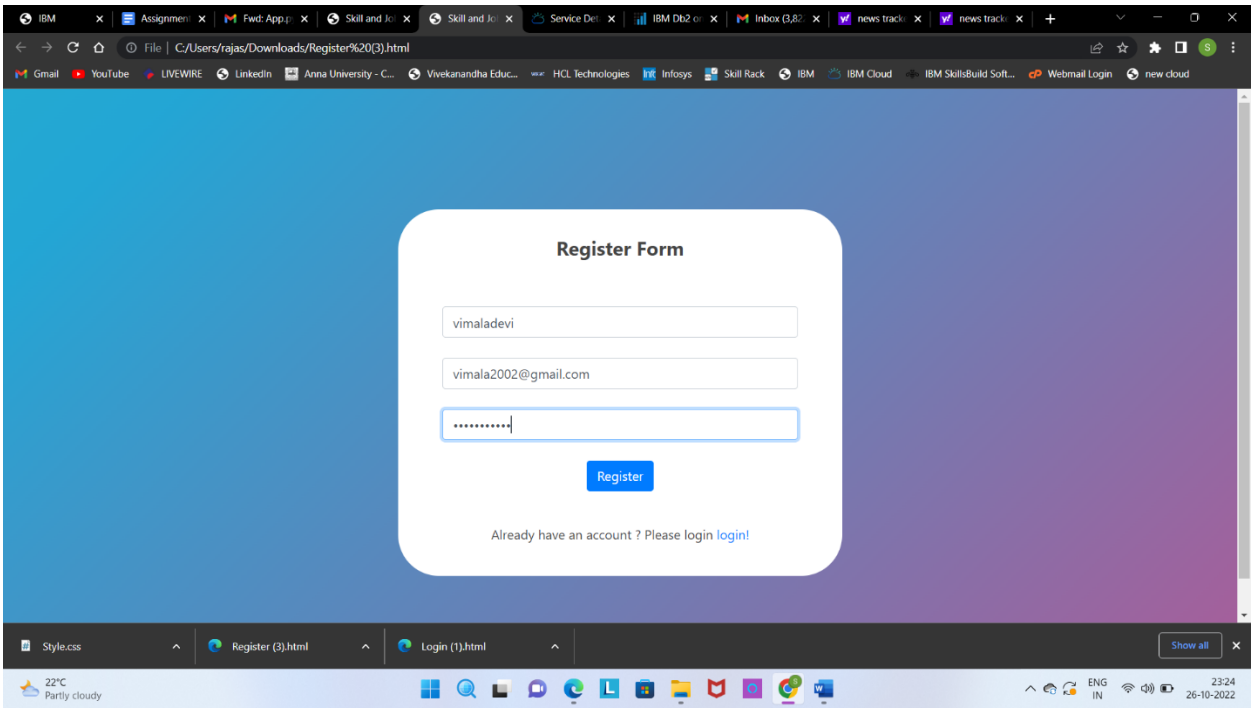
Style.css

```
* {
    margin: 0;
padding: 0;
    align-items: center;     justify-content:
center;     animation: anime 10s ease-in-out
infinite;
}
@keyframes anime{
  0%{         background-position:
0 50%;
  }   50%{         background-
position: 100% 50%;   }   100%{
background-position: 0 50%;
  } } form {     display:
flex;     flex-direction:
column;     align-items:
center;     justify-content:
center;     background-
color: white;     width:
40%;     height: 450px;
border-radius: 50px;
margin: 100px;     gap:
25px;

}  h2 {     font-size:
large;     font-weight:
bolder;
}  input {     width: 80%
!important;
}  div {     display: flex;
align-items: center;
justify-content: center;
flex-direction: column;
width: 90%;
```

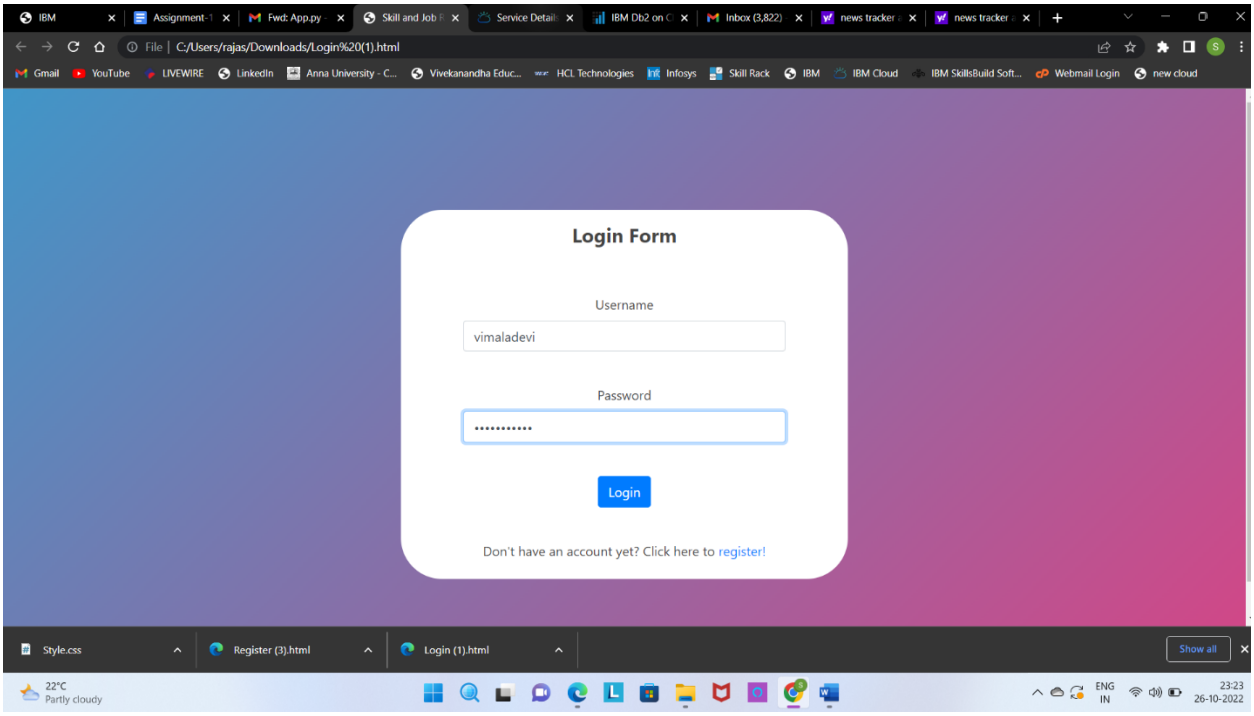
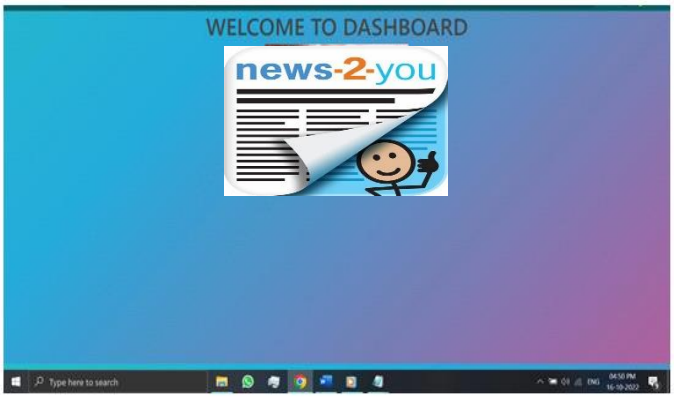
```
}

.form-text-vk {     font-
size: small;
} body
{
    color: #444444;     background:linear-gradient(-45deg, #EE7752, #E73C7E,
#23A6D5, #23D5AB);     background-size: 400% 400%;     position: relative;
display: flex;     flex-direction: column;

    padding-bottom: 10px;
}

.form-text-h2 {     font-size: x-large;     padding-top: 10px;
}
```

OUTPUT:-

REGISTRATION PAGE:-



LOGIN PAGE:-


Login Form
Username
vimaladevi
Password
Login
Don't have an account yet? Click here to register!
Style.css
Register (3).html
Login (1).html
Show all

WELCOME PAGE:-