

## ASSIGNMENT - 3

**TEAM ID** : PNT2022TMID19460

**PROJECT NAME** : PERSONAL EXPENSE TRACKER  
**APPLICATION**

### 1. CREATE USER TABLE WITH EMAIL, USERNAME, ROLL NUMBER, PASSWORD

The screenshot displays the IBM Db2 on Cloud web interface. The 'Tables' tab is selected, showing a list of tables in the 'RBC20807' schema. The 'USER' table is highlighted. The 'Table definition' panel on the right shows the following structure:

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
USERNAME	VARCHAR	Y	32	0
ROLL_NUMBER	INTEGER	Y		0

The interface also shows a search bar for schemas or tables, a 'New table' button, and a 'View data' button for the selected table. The bottom of the screen shows a Windows taskbar with various application icons and the system clock.

### INSERT QUERY:

```
INSERT INTO USER  
VALUES('ashadeviks@gmail.com','Ashadevi_01',01,1826),  
('ramyasria@gmail.com','ramyasri2000',08,1473),  
('lakshmisria@gmail.com','lakshmisri2000',14,4831),  
('kavyashriks@gmail.com','kavyashri2002',54,8362),  
('dkiruthika002@gmail.com','kiruthi2002',55,3829);
```

Document from - kiruthika.1 | Download file | iLovePDF | Service Details - IBM Cloud | IBM Db2 on Cloud

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F81b649861d7a417da12397560129...

Gmail YouTube Maps New Tab 1000 Java MCQ (M...

IBM Db2 on Cloud

Data objects My script

Filter objects

RBC20807

SQL

History

Find history

Script	Date	Status	Runtime
Untitled - 6	Oct 7, 2022 6:36:03 PM	1	0.039 s
INSERT INTO USER VALUES('ashadeviks@gmail.com', 'Ashadevi_01', ...			0.039 s

Activate Windows  
Go to Settings to activate Windows.  
Show all

ASSIGNMENT 3.docx ASSIGNMENT 3.pdf

Type here to search

18:36 07-10-2022

## OUTPUT:

Document from - kiruthika.1 | Download file | iLovePDF | Service Details - IBM Cloud | IBM Db2 on Cloud

bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F81b649861d7a417da12397560129...

Gmail YouTube Maps New Tab 1000 Java MCQ (M...

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

RBC20807.USER

Back

Export to CSV

EMAIL	USERNAME	ROLL_NUMBER	PASSWORD
ashadeviks@gmail.com	Ashadevi_01	1	1826
dkiruthika002@gmail.com	kiruthi2002	55	3829
kavyashriks@gmail.com	kavayashri2002	54	8362
lakshmisria@gmail.com	lakshmisri2000	14	4831
ramyasria@gmail.com	ramyasri2000	8	1473

Activate Windows  
Go to Settings to activate Windows.  
Show all

ASSIGNMENT 3.docx ASSIGNMENT 3.pdf

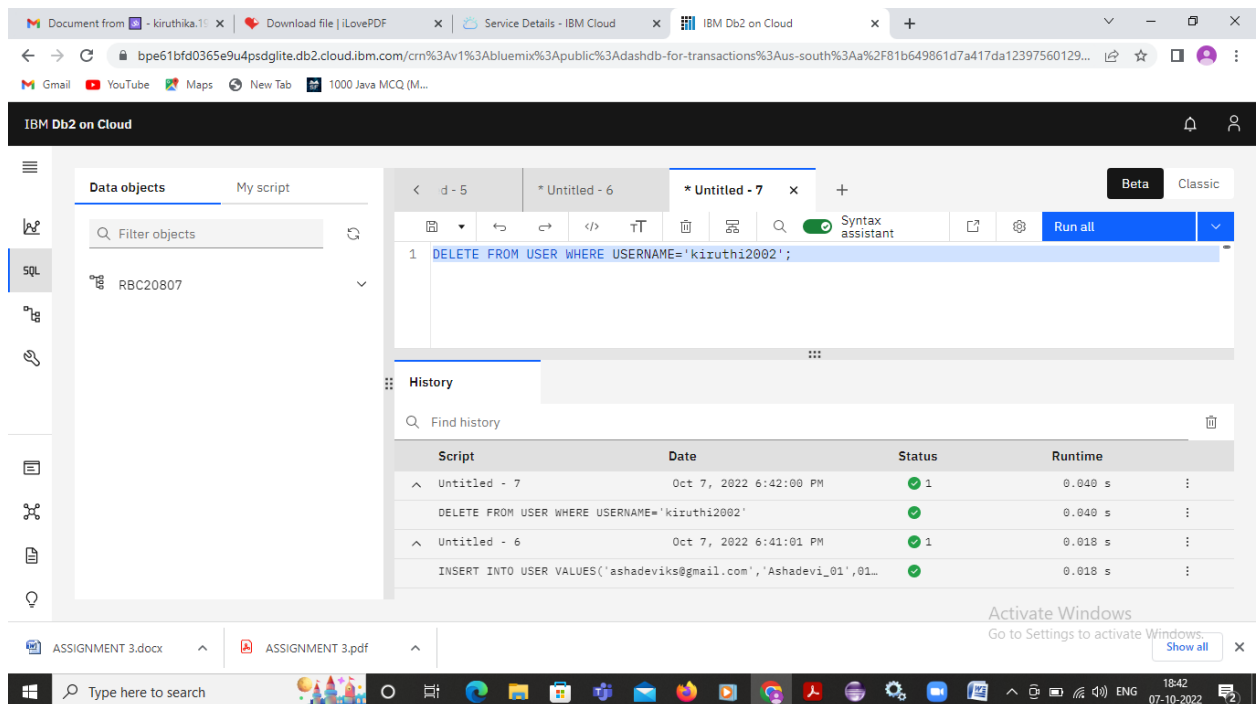
Type here to search

18:36 07-10-2022

## 2. PERFORM UPDATE AND DELETE QUERIES WITH USER TABLE:

### DELETE QUERY:

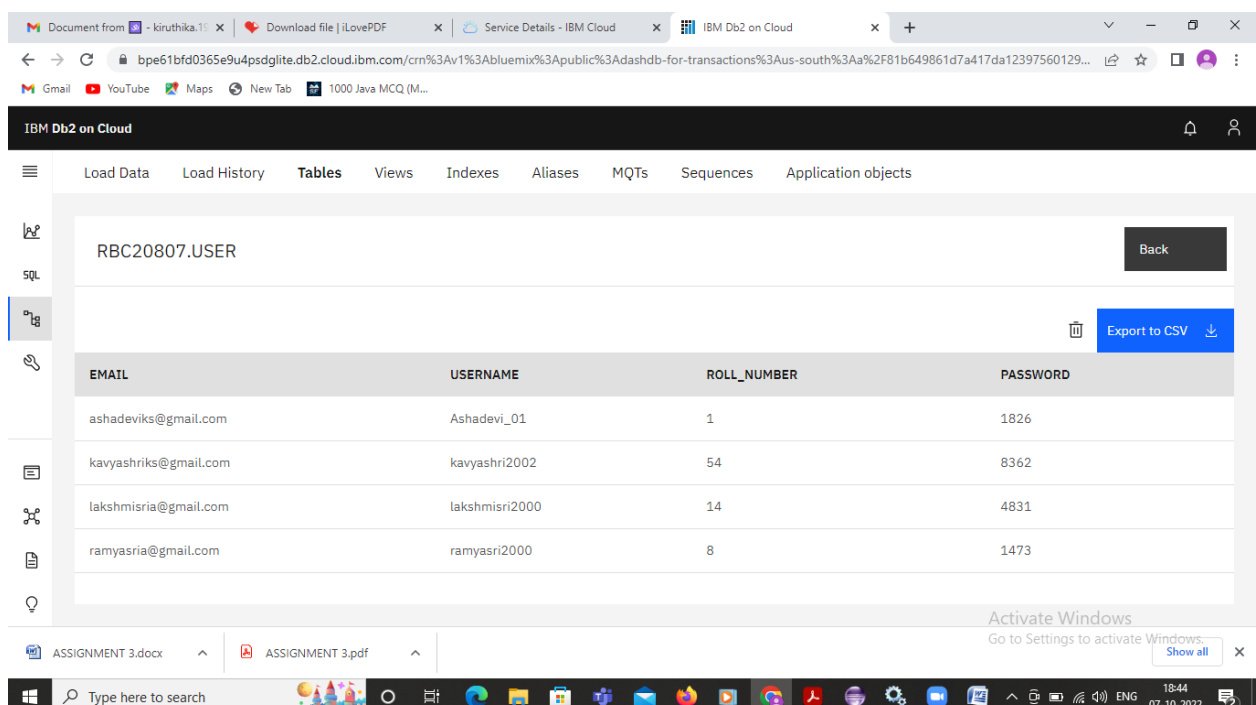
DELETE FROM USER WHERE USERNAME='kiruthi2002';



The screenshot shows the IBM Db2 on Cloud web interface. On the left, the 'Data objects' panel shows a table named 'RBC20807'. The main editor area shows a SQL script in a tab titled '\*Untitled - 7'. The script contains the query: `DELETE FROM USER WHERE USERNAME='kiruthi2002';`. Below the editor, the 'History' panel displays a table of executed queries.

Script	Date	Status	Runtime
Untitled - 7	Oct 7, 2022 6:42:00 PM	✓ 1	0.040 s
DELETE FROM USER WHERE USERNAME='kiruthi2002'			
Untitled - 6	Oct 7, 2022 6:41:01 PM	✓ 1	0.018 s
INSERT INTO USER VALUES('ashadeviks@gmail.com','Ashadevi_01',01...			

### OUTPUT:

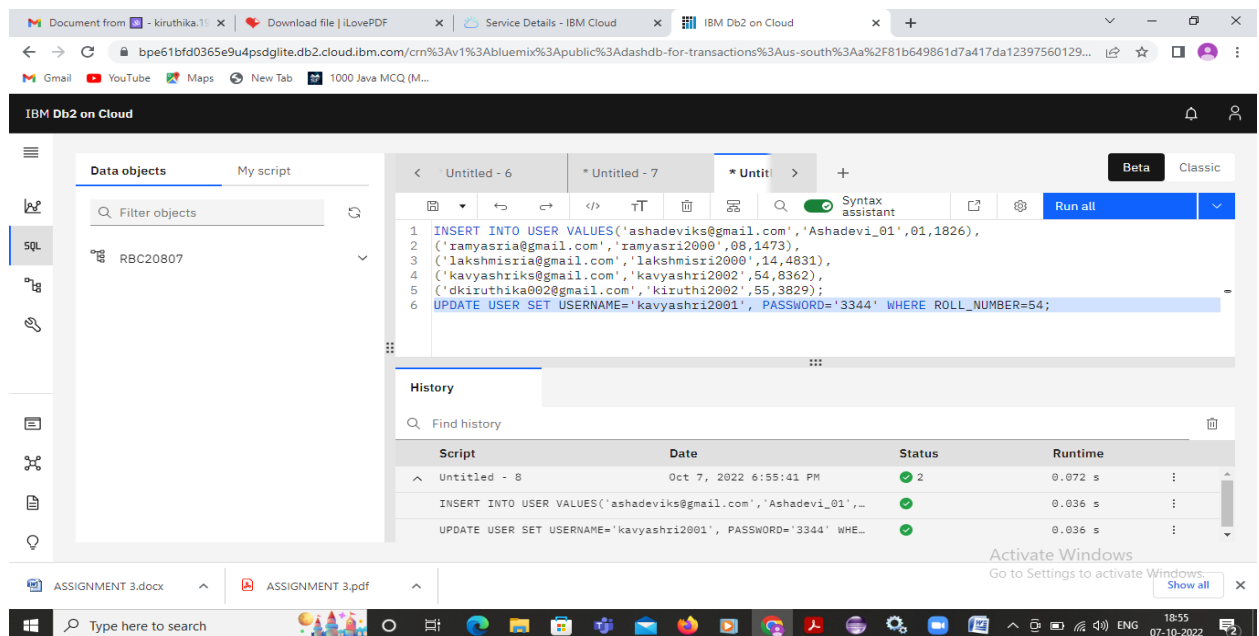


The screenshot shows the IBM Db2 on Cloud web interface displaying the output of the DELETE query. The 'Tables' tab is selected, and the table 'RBC20807.USER' is shown. The output is a table with four columns: EMAIL, USERNAME, ROLL\_NUMBER, and PASSWORD. The table contains four rows of data.

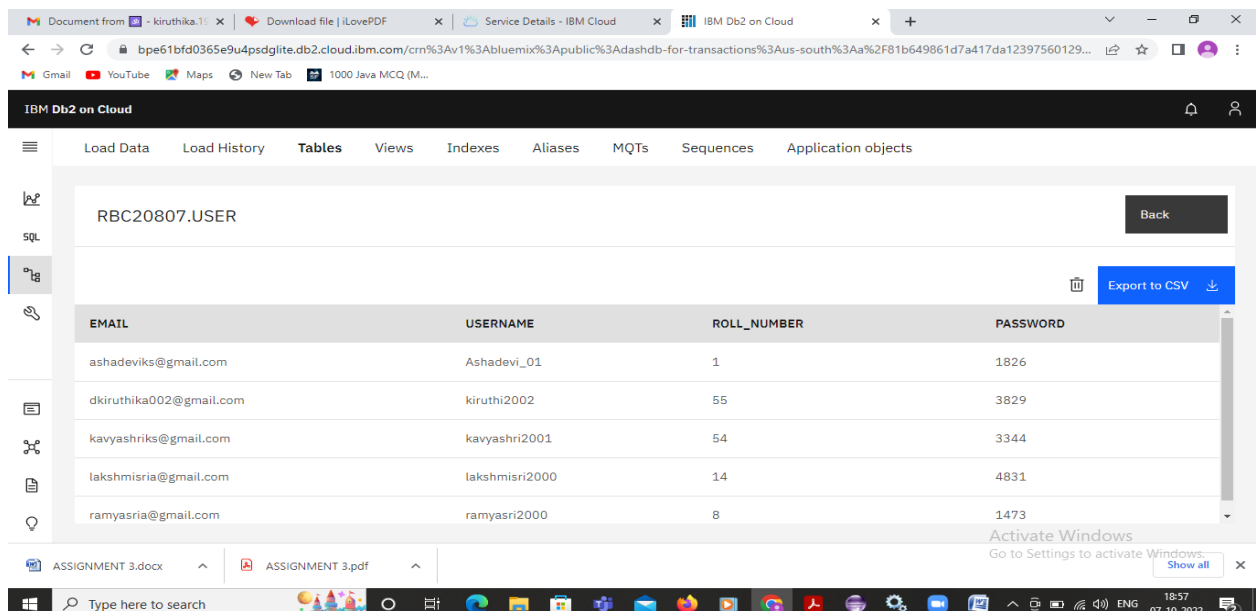
EMAIL	USERNAME	ROLL_NUMBER	PASSWORD
ashadeviks@gmail.com	Ashadevi_01	1	1826
kavyashriks@gmail.com	kavyashri2002	54	8362
lakshmisria@gmail.com	lakshmisri2000	14	4831
ramyasria@gmail.com	ramyasri2000	8	1473

## UPDATING QUERY:

```
INSERT INTO USER
VALUES('ashadeviks@gmail.com','Ashadevi_01',01,1826),
('ramyasria@gmail.com','ramyasri2000',08,1473),
('lakshmisria@gmail.com','lakshmisri2000',14,4831),
('kavyashriks@gmail.com','kavyashri2002',54,8362),
('dkiruthika002@gmail.com','kiruthi2002',55,3829);
UPDATE USER SET USERNAME='kavyashri2001', PASSWORD='3344'
WHERE ROLL_NUMBER=54;
```



## OUTPUT:



### **3.CONNECT PYHON TO db2:**

#### **CODE :**

```
import ibm_db
hostname = '9938aec0-8105-433e-8bf9-
0fbb7e483086.clogj3sd0tgtu0lqde00.databases.appdo
main.cloud' uid = 'qfk33398'
pwd = 'jnfFMaLIMeTZcout'
driver = "{IBM DB2 ODBC DRIVER}"
db = 'bludb'
port =
'32459'
protocol =
'TCPIP' cert =
'CRT1.crt'

dsn = (
    "DATABASE = {0};"
    "HOSTNAME = {1};"
    "PORT = {2};"
    "UID = {3};"
    "SECURITY
    = SSL;"
    "SSLServerCertificate = {4};"
    "PWD = {5};"
).format(db, hostname, port, uid,
cert, pwd)print(dsn)
try:
    db2 = ibm_db.connect(dsn,
    " ", " ")print("connect to
    database")
except:
    print("unable to connect ", ibm_db.conn_errormsg())
```

```
In [1]: import ibm_db

hostname = '9938aec0-8105-433e-8bf9-0fb7e483086.c1ogj3sd0tgu0lqde00.databases.appdomain.cloud'
uid = 'qfk33398'
pwd = 'jnffMaLIMeTZcout'
driver = "[IBM DB2 ODBC DRIVER]"
db = 'bludb'
port = '32459'
protocol = 'TCP/IP'
cert = 'CRT1.crt'

dsn = (
    "DATABASE = {0};"
    "HOSTNAME = {1};"
    "PORT = {2};"
    "UID = {3};"
    "SECURITY = SSL;"
    "SSLServerCertificate = {4};"
    "PWD = {5};"
).format(db, hostname, port, uid, cert, pwd)
print(dsn)
try:
    db2 = ibm_db.connect(dsn, "", "")
    print("connect to database")
except:
    print("unable to connect ", ibm_db.conn_errormsg())

DATABASE = bludb;HOSTNAME = 9938aec0-8105-433e-8bf9-0fb7e483086.c1ogj3sd0tgu0lqde00.databases.appdomain.cloud;PORT = 32459;UID = qfk33398;SECURITY = SSL;SSLServerCertificate = CRT1.crt;PWD = jnffMaLIMeTZcout;
connect to database

In [ ]:
```

## 4. about.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width,initial-scale=1">
<title>About Page</title>
<linkhref="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>
<body>
<nav class="navbar navbar-expand-lg bg-light" style="background-color:
#b5dbf7;">
<!-- Navbar content -->
<div class="container-fluid">
<div class="collapse navbar-collapse" id="navbarNavAltMarkup">
<div class="navbar-nav">
<a class="nav-link " href="home.html">Home</a>
<a class="nav-link active" aria-current="page"
href="#">About</a
>
<a class="nav-link" href="signin.html">Sign In</a>
```

```

    <a class="nav-link" href="signup.html">Sign up</a>
</div>
</div>
</div>
</nav>
<br><br>
<footer>
International Business Machines Corporation is an American multinational technology
corporation headquartered in Armonk, New York, with operations in over 171
countries.
</footer>
</body>
</html>

```

## Home.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width,initial-scale=1">
<title>Home Page</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>
<body>
<nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
<!-- Navbar content -->
<div class="container-fluid">
<div class="collapse navbar-collapse" id="navbarNavAltMarkup">
<div class="navbar-nav">
<a class="nav-link active" aria-current="page"
href="#">Home</
a>
                <a class="nav-link" href="about.html">About</a>
                <a class="nav-link" href="signin.html">SignIn</a>
                <a class="nav-link" href="signup.html">SignUp</a>
            </div>
        </div>
    </div>
</div>
</nav>
<br><br>
<div>

```

```

    <h4>
    <b>Welcome to IBM!!!</B>
  </h4>
</div>
</body>
</html>

```

## Signin.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width,initial-scale=1">
<title>SignIn</title>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>
<body>
<nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
<!-- Navbar content -->
<div class="container-fluid">
<div class="collapse navbar-collapse" id="navbarNavAltMarkup">
<div class="navbar-nav">
<a class="nav-link " href="home.html">Home</a>
<a class="nav-link" href="about.html">About</a>
<a class="nav-link active" aria-current="page"
href="#">SignIn</a>
<a class="nav-link" href="signup.html">SignUp</a>
</div>
</div>
</div>
</nav>
<div class="text-center my-5"
style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-
modern-double-color-futuristic-neon-background-image_351866.jpg');
background-repeat: no-

repeat;background-size: cover;">
  <section class="h-100">
    <div class="container h-100">
      <div class="row justify-content-sm-center h-100">

```



```

<div      xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-9">
clas      <div class="text-center my-5"></div>
s="c      <div class="card shadow-lg">
ol-      <div class="card-body p-5">

                                <h1 class="fs-4 card-title fw-bold mb-
4">Login</h1
>
                                <form method="POST" class="needs-validation"
novalidate="" autocomplete="off">
                                <div class="mb-3">
                                    <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
                                    <input id="email" type="email"
class="form-control" name="email" value=""
                                required autofocus>
                                <div class="invalid-feedback">
                                    Email is invalid
                                </div>
                                </div>
                                <div class="mb-3">
                                    <div class="mb-2 w-100">
                                        <label class="text-muted"
for="password">Password</label
                                        <a href="forgot.html"
>class="float-end">
                                            Forgot Password?
                                        </a>
                                    </div>
                                    <input id="password" type="password"
class="form-control" name="password"
                                        required>
                                    <div class="invalid-feedback">
                                        Password is required
                                    </div>
                                </div>
                                <div class="d-flex align-items-center">
                                    <div class="form-check">
                                        <input type="checkbox"
class="form-check-input">
                                        <label for="remember" class="form-
check-label">Remember Me</label>
                                    </div>
                                    <button type="submit" class="btn btn-
primary ms-auto">

```

```
</div>
</form>
</div>
<div class="card-footer py-3 border-0">
<div class="text-center">
  Don't have an account? <ahref="signup.html" class="text-
  dark">CreateOne</a>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</section>
</div>
</body>
</html>
```

## Signup.html

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

<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>SignUp</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta2/dist/css/bootstrap.min.css" rel="stylesheet">
</head>

<body>

  <nav class="navbar navbar-expand-lg bg-light" style="background-color:
#e3f2fd;">
    <!-- Navbar content -->

    <div class="container-fluid">
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-link " href="home.html">Home</a>
          <a class="nav-link" href="about.html">About</a>
          <a class="nav-link" href="signin.html">SignIn</a>
          <a class="nav-link active" aria-current="page"
```

```

href="#">SignUp</a>
    </div>

</div>
</div>
</nav>
<div class="text-center my-5"
    style="background-image:
url('https://png.pngtree.com/thumb_back/fh260/background/20200714/pngtree-
modern-double-color-futuristic-neon-background-image_351866.jpg');
    background-repeat: no-repeat;
    background-size: cover;">
    <section class="h-100">
        <div class="container h-100">
            <div class="row justify-content-sm-center h-100">
                <div class="col-xxl-4 col-xl-5 col-lg-5 col-md-7 col-sm-
9">
                    <div class="text-center my-5"></div>
                    <div class="card shadow-lg">
                        <div class="card-body p-5">
                            <h1 class="fs-4 card-title fw-bold mb-
4">Register</h1>
                            <form method="POST" class="needs-validation"
                                novalidate="" autocomplete="off">
                                <div class="mb-3">
                                    <label class="mb-2 text-muted"
for="name">Name</labe
l>
                                    <input id="name" type="text"
class="form-control" name="name" value="" required
                                autofocus>
                                <div class="invalid-feedback">
                                    Name is required
                                </div>
                                </div>
                                <div class="mb-3">
                                    <label class="mb-2 text-muted"
for="email">E-Mail Address</label>
                                    <input id="email" type="email"
class="form-control" name="email" value=""
                                required>
                                <div class="invalid-feedback">
                                    Email is invalid
                                </div>
                                </div>

```

```
<div class="mb-3">  
    <label class="mb-2 text-muted"  
for="password">Password</label>  
>  
    <input id="password" type="password"  
class="form-control" name="password"  
        required>  
  
    <div class="invalid-feedback">  
        Password is required  
    </div>  
</div>  
  
<p class="form-text text-muted mb-3">  
    By registering you agree with our  
terms and condition.  
</p>  
  
<div class="align-items-center d-flex">  
    <button type="submit" class="btn btn-  
primary ms-auto">  
        Register  
    </button>  
</div>  
</form>  
</div>  
<div class="card-footer py-3 border-0">  
    <div class="text-center">  
        Already have an account? <a  
href="signin.html" class="text-dark">Login</a>  
    </div>  
</div>  
</div>  
  
</div>  
</div>  
</div>  
</section>  
</div>  
  
</body>  
  
</html>
```

## **app.py**

```
from flask import Flask, render_template
```

```
app = Flask(__name__)
```

```
@app.route("/")
```

```
@app.route("/home")
```

```
def home():
```

```
    return render_template("home.html")
```

```
@app.route("/about")
```

```
def about():
```

```
    return render_template("about.html")
```

```
@app.route("/signin")
```

```
def signin():
```

```
    return render_template("signin.html")
```

```
@app.route("/signup")
```

```
def signup():
```

```
    return render_template("signup.html")
```