```python
import ibm_dbdictionary={}

defprintTableData(conn):

sql="SELECT*FROMuserdetails"

out=ibm_db.exec_immediate(conn,sql)document = ibm_db.fetch_assoc(out)whiledocument!=False:

dictionary.update({document['USERNAME']:document['PASSWORD']})document=ibm_db.fetch_assoc(out)

definsertTableData(conn,rollno,username,email,password):

sql="INSERTINTOuserdetails(rollno,username,email,password)VALUES({},'{}','{}','{}')".format(rollno,username,email,password)

out=ibm_db.exec_immediate(conn,sql)

print('Numberofaffectedrows:',ibm_db.num_rows(out),"\n")




defupdateTableData(conn,rollno,username,email,password):

sql="UPDATEuserdetailsSET(username,email,password)=('{}','{}','{}')WHERErollno={}".format(username,email,password,rollno)

out=ibm_db.exec_immediate(conn,sql)

print('Numberofaffectedrows:',ibm_db.num_rows(out),"\n")




defdeleteTableData(conn,username):

sql = "DELETE FROM userdetails WHERE
username={}".format(username)out=ibm_db.exec_immediate(conn,sql)




print('Numberofaffectedrows:',ibm_db.num_rows(out),"\n")




try:

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY

=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=cll33761;PWD=JHRHpRt
T82zDR0z6;","","")

print("Dbconnected")
```

```python
except:

print("Error")


from flask import *app=Flask(    name    )


@app.route("/")@app.route("/login",methods=['POST','GET'])deflogin(pbkdf2_sha256=None):

ifrequest.method=="POST":printTableData(conn)username=request.form['username']password=request.form['password']ifdictionary[username]==password:

returnrender_template('user.html',uname=username)returnrender_template('loginpage.html')


@app.route("/register",methods=['POST','GET'])defregister():

ifrequest.method=="POST":

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

insertTableData(conn,rollno,username,email,password)#printTableData(conn)

returnrender_template('loginpage.html')returnrender_template('registerpage.html')@app.route("/delected")

defdelected():


returnrender_template('delectuser.html')@app.route("/logout")

deflogout():

returnredirect(url_for('login'))


#printTableData(conn)#print(dictionary)


if    name    =="    main    ":app.run(debug=True)


Loginpage.html

<!DOCTYPEhtml>
```

```html
<
<
<
htmllang="en">
  head>
  metacharset="UTF-8">
<scriptsrc="https://code.jquery.com/jquery-3.2.1.slim.min.js"integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"crossorigin="anonymous"></script>

<scriptsrc="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"crossorigin="anonymous"></script>

<scriptsrc="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"crossorigin="anonymous"></script>

<link
rel="stylesheet"href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"crossorigin="anonymous">

<title>LoginPage</title>

<style type="text/css">body{

background-color:"white";

}


<!--.msg,.login{-->

<!--text-align:center;-->

<!--margin-top:25px;-->

<!--margin-bottom:25px;-->

<!--}-->
```

```css
form{width:30%;
}
.center{
position:absolute;left:0;
right:0;
margin-left:900px;margin-top:150px;


}
img{
height: 400px;width: auto;position: absolute;margin-left:100px;margin-top:200px;


}
.
```

```
.login:before{content: "";flex:1;height:1px;

background:#eee;

}
</style>
</head>
<body>
<imgsrc="user.jpg"alt="">
<br>
<div>
<formaction="/login"method="POST"class="center">
<divclass="form-group">
<h3class="login">Login</h3>
<labelfor="exampleInputEmail1">UserName</label>
<inputtype="text"name="username"class="form-control"id="exampleInputEmail1"placeholder="EnterUsername">
<divclass="form-group">
<labelfor="exampleInputPassword1">Password</label>
<inputtype="password"name="password"class="form-control"id="exampleInputPassword1"placeholder="Password">
</div>
<div>
NewUser?Clickto<ahref="{{url_for('register')}}">Sign-Up</a>
<br>
buttontype="submit"class="btnbtn-primary">Submit</button>
/form>
/div></body></html>
```

Registerpage.html

```html
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">


<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-
KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anon
ymous"></script>


<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js" integrity="sha3
84-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q" crossorigin="anony
mous"></script>


<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js" integrity="sha38
4-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl" crossorigin="anonym
ous"></script>


<link
rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" int
egrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anon
ymous">

<title>Register page</title>

<style type="text/css">


body{

background-color:#EAF6F6;
}

.msg,.login{

text-align: center;margin-top: 25px;margin-bottom:25px;

}
```

```
        <       form{width:30%;

        <       }

        <       .center{

                position: absolute;margin-left:900px;margin-top:200px;

                }

                img{

                position: absolute;margin-top:100px;

                }


</style>

</head>

<body>

<imgsrc="https://mdbcdn.b-cdn.net/img/Photos/new-templates/bootstrap-login-
form/draw2.webp"alt="">


<formaction="/register"method="POST"class="center">

<divclass="form-group">

<labelfor="exampleInputUsername">RollNumber</label>

<input type="number" name="rollno" class="form-control"id="exampleInputRollNo"aria-
describedby="emailHelp"placeholder="EnterRollNumber">

</div>

<divclass="form-group">

<labelfor="exampleInputUsername">UserName</label>

<input type="text" name="username" class="form-control"id="exampleInputUsername"aria-
describedby="emailHelp"placeholder="EnterUsername">

</div>
```

```html
   divclass="form-group">

   label for="exampleInputEmail">Email</label>

   inputtype="text"name="email"class="form-control"id="exampleInputEmail"aria-
describedby="emailHelp"placeholder="EnterUsername">

</div>

<divclass="form-group">

<labelfor="exampleInputPassword">Password</label>

<inputtype="password"name="password"class="form-
control"id="exampleInputPassword"placeholder="Password">

</div>

<div>

AlreadyaUser?Clickto<ahref="{{url_for('login')}}">Login</a>

</div>

<br>

<buttontype="submit"class="btnbtn-primary">Submit</button>

</form>

</body>

</html>
```

User.html

```html
<html>
<head>
<title>UserPage</title>
<linkrel="stylesheet"href="{{url_for('static',filename='css/bootstrap.min.css')}}">
<scriptsrc="{{url_for('static',filename='js/jquery.min.js')}}"></script>
</head>
<body>
<divclass="container">
<divclass="col-md-5">
<h3class="page-headertext-info">UserPage</h3>
<h3><marqueebehavior="scroll"direction="left">Welcome {{uname}}</marquee></h3><hr>
<h4><ahref="{{url_for('delete')}}">Delete</h4>
<h4><ahref="{{url_for('logout')}}">Logout</a></h4>
</div>
</div>
</body>
```