

IBM DB2 CONNECT WITH PYTHON

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TEAM ID	PNT2022TMID39797
PROJECT NAME	Smart Fashion Recommender Application

IBM db2 program:

```
import ibm_db
dictionary={}
def printTableData(conn):
    sql = "SELECT * FROM userdetails"
    out = ibm_db.exec_immediate(conn, sql)
    document = ibm_db.fetch_assoc(out)
    while document != False:
        dictionary.update({document['USERNAME']:document['PASSWORD']})
        document = ibm_db.fetch_assoc(out)
    def insertTableData(conn,rollno,username,email,password):
        sql="INSERT INTO userdetails(rollno,username,email,password) VALUES ({},{},{},{})".format(rollno,username,email,password)
        out = ibm_db.exec_immediate(conn,sql)
        print('Number of affected rows : ',ibm_db.num_rows(out),"\\n")
    def updateTableData(conn,rollno,username,email,password):
```

```

sql = "UPDATE userdetails SET
(username,email,password)=('{}','','{') WHERE
rollno={}".format(username,email,password,rollno) out = ibm_db.exec_immediate(conn,
sql) print('Number of affected rows : ', ibm_db.num_rows(out), "\n") def
deleteTableData(conn,rollno):
    sql = "DELETE FROM userdetails WHERE
rollno={}".format(rollno) out =
ibm_db.exec_immediate(conn, sql)
print('Number of affected rows : ',
ibm_db.num_rows(out), "\n") try:

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-
81f886b520b87518.bs2io90l
08kqb1od8lcg.databases.appdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertifi
cate=DigiCertGlo
balRootCA.crt;PROTOCOL=TCPIP;UID=bjn03696;PWD=ef96tLJX2VjzaCPX;", "",
"") print("Db
connected") except:
print("Error")

```

Connect db2 to python:

```

from flask import Flask,render_template,request,url_for,session app=Flask(__name__)
@app.route("/")
@app.route("/login",methods=['POST','GET']) def
login():
    if request.method=="POST":
        printTableData(conn)

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

            if dictionary[username] == password and username in dictionary:

```

```

return "Logged in successfully"
except:
    return "Invalid username or
password" return
render_template('loginpage.html')
@app.route("/register",methods=['POST','GET']) def
register():
    if request.method=="POST":
        rollno = request.form['rollno']
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']

insertTableData(conn, rollno, username, email, password)
return render_template('loginpage.html') return
render_template('registerpage.html') if
__name__=="__main__":

app.run(debug=True)q
late,request,url_for,session
app=Flask(__name__)
@app.route("/&quo

t;)
@app.route("/login",methods=['POST','GET']) def
login():
    if request.method=="POST":
printTableData(conn)

```

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

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

```
try:
```

```
    if dictionary[username] == password and username in dictionary:
```

```
        return "Logged in successfully"
```

```
except:
```

```
    return "Invalid username or
```

```
password" return
```

```
render_template('log')
```