

## ASSIGNMENT 2

|                     |                  |
|---------------------|------------------|
| Assignment Date     | 18.11.2022       |
| Student Name        | Ajaymanikandan S |
| Student Roll Number | 913019104003     |
| Maximum Marks       | 2Marks           |

### QUESTION:

#### 1.Create a Flask App :

```
from turtle import st
```

```
from flask import Flask, render_template, request, redirect, url_for, session
```

```
from markupsafe import escape
```

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

```
import ibm_db
```

```
hostname = "ea286ace-86c7-4d5b-8580-  
3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
```

```
uid = "qfj91392"
```

```
pwd = "8a5MLKDKXLswbOn6"
```

```
driver = "{IBM DB2 ODBC DRIVER}"
```

```
db = "bludb"
```

```
port = " 31505"
```

```
protocol = "TCPIP"
```

```
cert = "abc.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("Connected to data base")
except:
    print("Unable to connect", ibm_db.conn_errormsg())

```

```

@app.route('/')
def home():
    return render_template('home.html')

```

```

@app.route('/signin')
def signin():
    return render_template('signin.html')

```

```

@app.route('/signup')
def signup():
    return render_template('signup.html')

```

```

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

```

```

if request.method == 'POST':
    username = request.form['username']
    email = request.form['email']
    password = request.form['password']
    sql = "SELECT * FROM user WHERE username =?"
    stmt = ibm_db.prepare(db2, sql)
    ibm_db.bind_param(stmt, 1, username)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)

    if account:
        return render_template('signup.html', msg="Username Already Taken")
    else:
        sql = "insert into user(username,email,password) values(?,?,?)"
        prep_stmt = ibm_db.prepare(db2, sql)
        ibm_db.bind_param(prepare_stmt, 1, username)
        ibm_db.bind_param(prepare_stmt, 2, email)
        ibm_db.bind_param(prepare_stmt, 3, password)
        ibm_db.execute(prepare_stmt)
        return redirect(url_for('signin'))

```

```

@app.route('/login', methods=['POST', 'GET'])

```

```

def login():

```

```

    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "select * from user where username=? and password=?"
        stmt = ibm_db.prepare(db2, sql)
        ibm_db.bind_param(stmt, 1, username)

```

```
ibm_db.bind_param(stmt, 2, password)

ibm_db.execute(stmt)

dic = ibm_db.fetch_assoc(stmt)

print(dic)

if dic:

    return render_template('home.html', msg="WELCOME TO FLASK APPLICATION")

else:

    msg = "Invalid Username or Password"

    return render_template('signin.html', msg=msg)


elif request.method == 'GET':

    msg = "Invalid Username or Password"

    return render_template('signin.html', msg=msg)


if __name__ == '__main__':

    app.run(debug=True)
```

### OUTPUT :

```
C:\Windows\System32\cmd.exe python app.py
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sviva\Desktop\yugesh>cd C:\Users\sviva\Desktop\yugesh
C:\Users\sviva\Desktop\yugesh>python app.py
DATABASE_URL=bludob:MOSTNAME=aa266ace-68c7-4c5b-6580-3f9fa48b1ce6.bs10e90106kqb1ce91cg.databases.appdomain.cloud:PORT=
cc.crt:PNO-Ba5MLKXKLswb0r6;
Unable to connect [IDM][CLI Driver] 50L1842K An unexpected system error occurred. 50L5A1b558084 50L000e-1042
* Serving flask app "app" (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Restarting with watchdog (windowsapi)
DATABASE_URL=bludob:MOSTNAME=aa266ace-68c7-4c5b-6580-3f9fa48b1ce6.bs10e90106kqb1ce91cg.databases.appdomain.cloud:PORT=
cc.crt:PNO-Ba5MLKXKLswb0r6;
Unable to connect [IDM][CLI Driver] 50L1842K An unexpected system error occurred. 50L5A1b558084 50L000e-1042
* Debugger is active!
* Debugger PIN: 118-1-0-196
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

## 2.HOME PAGE (Welcome page )

<html>

&lt;head&gt;

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
OERcA2EqJCMa+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js" integrity="sha384-oBqDVmMz9ATKxleP9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlImh/jp3" crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js"
integrity="sha384-
IDwe1+LCz02ROU9k972gdyvl+AESN10+x7tBKgc9I5HFTuNz0wWnPclzo6p9vxnk"
crossorigin="anonymous"></script>
```

```
</head>
```

```
<body>
```

```
<nav class="navbar navbar-expand-lg bg-light">
```

```
  <div class="container-fluid">
```

```
    <a class="navbar-brand" href="#">Navbar</a>
```

```
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
```

```
      <span class="navbar-toggler-icon"></span>
```

```
    </button>
```

```
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
```

```
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
```

```
        <li class="nav-item">
```

```
          <a class="nav-link active" aria-current="page" href="#">Home</a>
```

```
        </li>
```

```
      <li class="nav-item">
```

```
        <a class="nav-link" href="{{url_for('signin')}}">Signin</a>
```

```
      </li>
```

```
      <li class="nav-item">
```

```
        <a class="nav-link" href="{{url_for('signup')}}">Signup</a>
```

```
      </li>
```

```

        </ul>

        <form class="d-flex" role="search">

            <input class="form-control me-2" type="search" placeholder="Search" aria-label="Search">

            <button class="btn btn-outline-success" type="submit">Search</button>

        </form>

    </div>

</div>

</nav>

<div class="container text-center">

    <div class="row">

        <div class="col">

            <h1 style="font-size:100px;">FLASK APPLICATION</H1>

            </div>

            {% block content %}

                <div class="col">

                    <a href="{{url_for('signin')}}">

                        </a>

                    </div>

                </DIV>

            {% endblock %}

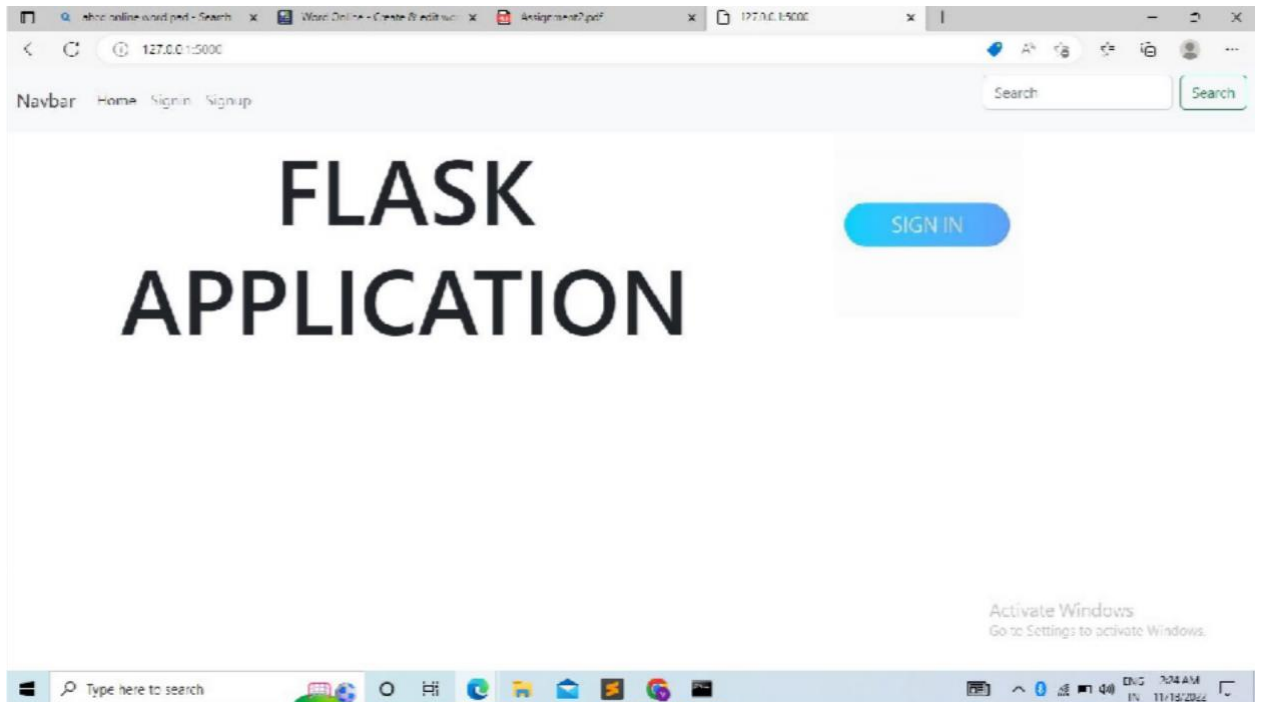
        </div>

    </div>

</html>

```

## OUTPUT :



## 3.ADD THE BOOTSTRAP :

<head>

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
OERcA2EgjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNjuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"
integrity="sha384-
oBqDVmMz9ATKxleP9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlhm/jp3"
crossorigin="anonymous"></script>
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.min.js"
integrity="sha384-
IDwe1+LCz02ROU9k972gdyvl+AESN10+x7tBKgc9I5HFtuNz0wWnPclzo6p9vxnk"
crossorigin="anonymous"></script>
```

</head>



## 4.SIGN IN PAGE :

```
{% extends 'home.html' %}
```

```
{% block content %}
```

```
<form action = "{{ url_for('login') }}" method = "POST">
```

```
<div class="mb-3">
```

```
<label for="username" class="form-label">username</label>
```

```
<input type="text" name="username" class="form-control" id="username">
```

```
</div>
```

```
<div class="mb-3">
```

```
<label for="exampleInputPassword1" class="form-label">Password</label>
```

```
<input type="password" class="form-control" name="password"  
id="exampleInputPassword1">
```

```
</div>
```

```
<div class="mb-3 form-check">
```

```
<input type="checkbox" class="form-check-input" id="exampleCheck1">
```

```
<label class="form-check-label" for="exampleCheck1">Check me out</label>
```

```
</div>
```

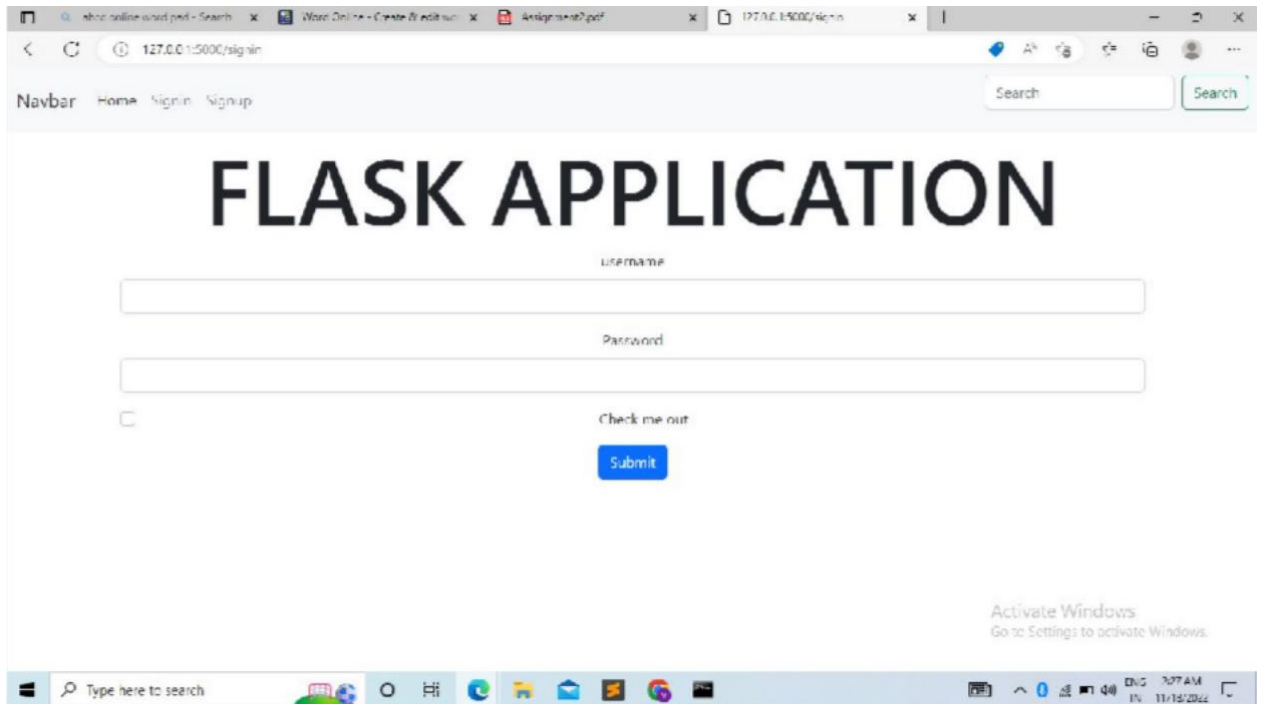
```
<button type="submit" class="btn btn-primary">Submit</button>
```

```
</form>
```

```
{{msg}}
```

```
{% endblock %}
```

## OUTPUT :



## 5.SIGN UP PAGE

```
{% extends 'home.html' %}
```

```
{% block content %}
```

```
<form action = "{{ url_for('register') }}" method = "POST">
```

```
<div class="mb-3">
```

```
<label for="exampleInputPassword1" class="form-label">Username</label>
```

```
<input type="username" name="username" class="form-control"
id="exampleInputPassword1">
```

```
</div>
```

```
<div class="mb-3">

  <label for="exampleInputEmail1" class="form-label">Email address</label>

  <input type="email" name="email" class="form-control" id="exampleInputEmail1" aria-
describedby="emailHelp">

  <div id="emailHelp" class="form-text">We'll never share your email with anyone else.</div>

</div>

<div class="mb-3">

  <label for="exampleInputPassword1" class="form-label">Password</label>

  <input type="password" name="password" class="form-control"
id="exampleInputPassword1">

</div>

<div class="mb-3 form-check">

  <input type="checkbox" class="form-check-input" id="exampleCheck1">

  <label class="form-check-label" for="exampleCheck1">Check me out</label>

</div>

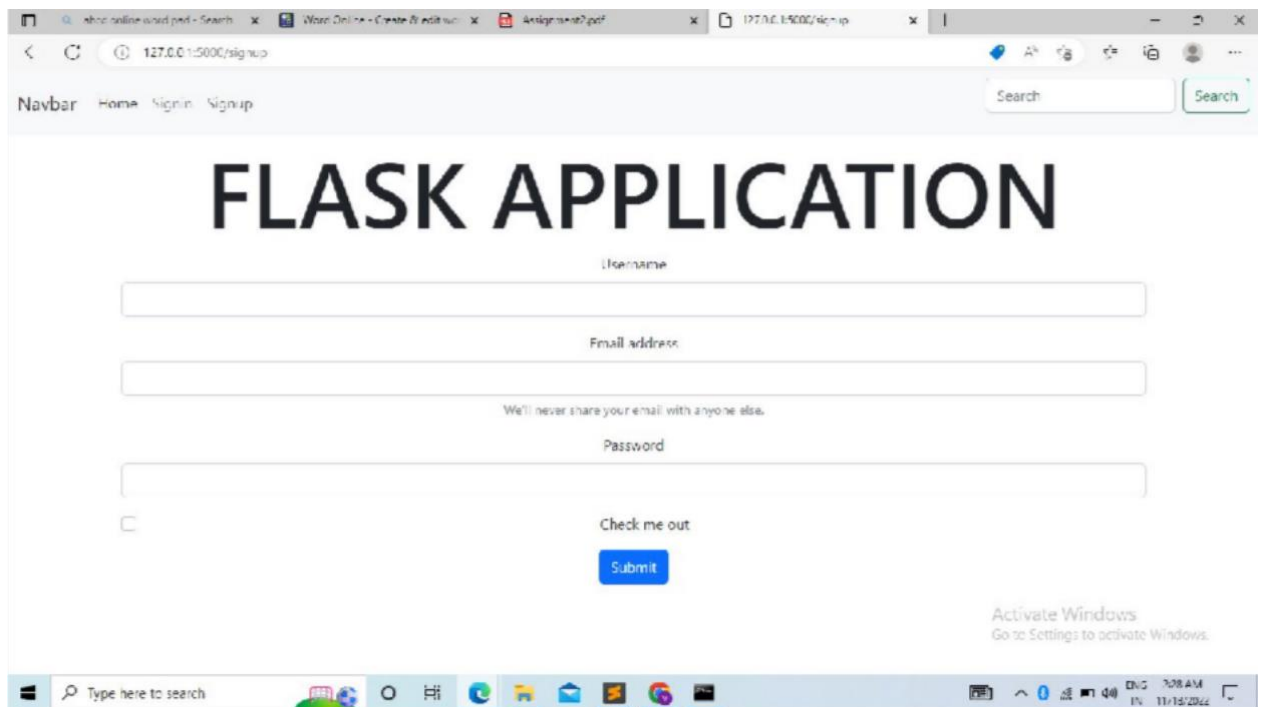
<button type="submit" class="btn btn-primary">Submit</button>

</form>
```

```
{{msg}}
```

```
{% endblock %}
```

## OUTPUT :



## 5.DATABASE CONNECTIVITY :

```
import ibm_db
```

```
hostname = "ea286ace-86c7-4d5b-8580-3fbfa46b1c66.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
```

```
uid = "qfj91392"
```

```
pwd = "8a5MLKDKXLswbOn6"
```

```
driver = "{IBM DB2 ODBC DRIVER}"
```

```
db = "bludb"
```

```
port = " 31505"
```

```
protocol = "TCP/IP"
```

```
cert = "abc.crt"
```

```

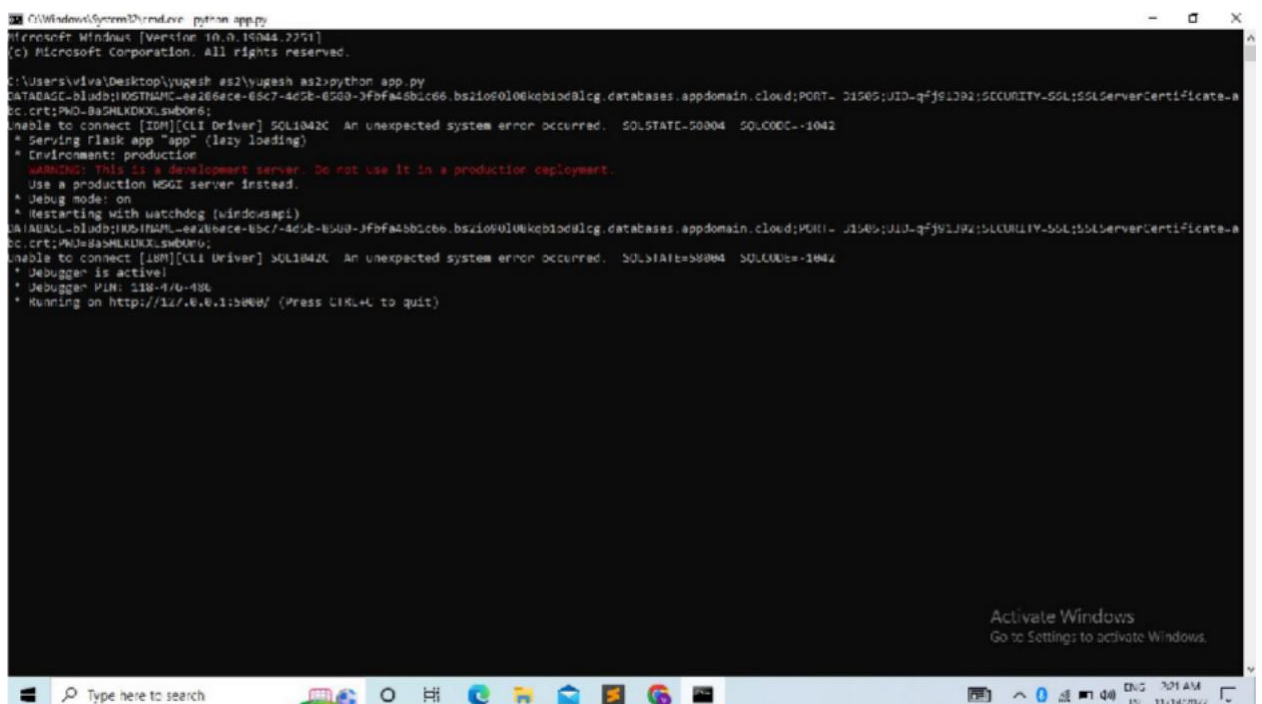
dsn = (
    "DATABASE={0};"
    "HOSTNAME={1};"
    "PORT={2};"
    "UID={3};"
    "SECURITY=SSL;"
    "SSLServerCertificate={4};"
    "PWD={5};"
).format(db, hostname, port, uid, cert, pwd)

print(dsn)

try:
    db2 = ibm_db.connect(dsn, "", "")
    print("Connected to data base")
except:
    print("Unable to connect", ibm_db.conn_errormsg())

```

## OUTPUT :



```

C:\Windows\System32\cmd.exe: python app.py
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\yugal\Desktop\yugesh> python app.py
DATABASE=bludb;HOSTNAME=ea2d6eace-65c7-4c2b-6503-3fbfa48b1c66.bs2io5010kqb1oddlcg.databases.appdomain.cloud;PORT= 31565;UID=qfj61392;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=8a5M4XKX.LSWB0WU;
Unable to connect [IBM][CLI Driver] SQL1042K An unexpected system error occurred.  SQLSTATE=50004  SQLCODE=-1042
* Serving flask app "app" (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Restarting with watchdog (windowsapi)
DATABASE=bludb;HOSTNAME=ea2d6eace-65c7-4c2b-6503-3fbfa48b1c66.bs2io5010kqb1oddlcg.databases.appdomain.cloud;PORT= 31565;UID=qfj61392;SECURITY=SSL;SSLServerCertificate=a
bc.crt;PWD=8a5M4XKX.LSWB0WU;
Unable to connect [IBM][CLI Driver] SQL1042K An unexpected system error occurred.  SQLSTATE=50004  SQLCODE=-1042
* Debugger is active
* Debugger PIN: 118-46-496
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

```

# DATABASE LIST

IBM Db2 on Cloud

tpet1b1u096be5u1oadghflec02cloud.ibm.com/enr52Ay1%54bluenot%5Apublic%5Adashdu-for-transaction%5Aus-south%5Aa%2Fcc08Ufe9e054fdba3dauc8230bva...

GmailYouTubeMapsNewsTranslateService Details - IB...

IBM Db2 on Cloud

Load DataLoad HistoryTablesViewsIndexesAliasesMQTsSequencesApplication objects

WTH08341.USER

Back

Export to CSV

| USERNAME        | EMAIL                    | PASSWORD   | REPASSWORD |
|-----------------|--------------------------|------------|------------|
| vital praveen.s | vibhuprasanth2@gmail.com | Vital@1234 | Vital@1234 |

Type here to search

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