

## Assignment -2

### Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

#### Question-1:

1. Create User table with email,username,roll number, password.

#### Soultion:

The screenshot shows the IBM Db2 on Cloud console interface. The 'Tables' tab is selected, displaying a list of tables. The 'USER' table is highlighted. The 'Table definition' panel on the right shows the table's structure:

Name	Data type	Nullable	Length	Scale
ROLLNO	VARCHAR	N	32	0
USERNAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

Below the table definition, there is a 'View data' button. The console also shows a search bar for schemas or tables and a 'Refresh' button.

#### Question-2:

- 2.Perform UPDATE,DELETE Queries with user table

#### Soultion:

```
def Delete(conn,rollno,name,email,password):
```

```
    sql="UPDATE Users SET ROLLNO ='{}', WHERE USERNAME='{}';".format(rollno,name)
```

```
    stmt=ibm_db.exec_immediate(conn,sql)
```

```
    print("The Number if affected rows: ", ibm_db.num_rows(stmt),"\n")
```

```
def Update(conn,rollno,name,email,password):
```

```
    sql="UPDATE Users SET ROLLNO ='{}', WHERE USERNAME='{}';".format(rollno,name)
```

```
    stmt=ibm_db.exec_immediate(conn,sql)
```

```
    print("The Number if affected rows: ", ibm_db.num_rows(stmt),"\n")
```

**Question-3:**

Connect python code to db2

**Soultion:**

```
import ibm_db
try:
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;SECURITY=SSL;
SSLServerCertificateDigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=nhl80748;PWD=3yD0G9e6VuQ
HsOBX;", "", "")
    print("connection Success")
    display(conn)
    Insert(conn,"6213192026","navin raj","winN@gmail.com","euyfuis")
    display(conn)

except:
    print("couldn't connect")
```

**Question-4:**

Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page. Authenticate user with username and password. If the user is valid show the welcome page.

**Soultion:**

//login.html

```
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css">
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/particlesjs/2.2.3/particles.min.js">

  </head>
  <style>
    body{
```

```

        background:linear-gradient(to right,#c9522d,#f64c72);
        background-attachment: fixed;
        background-repeat: no-repeat;
        background-size: cover;
        margin: 0;
        padding: 0;
    }
.form-control, .form-control:focus ,.input-group-addon{
border-color: aliceblue;
border-radius: 0;
}
.signup{
    width: 360px;
    margin: 0 auto;
    padding: 50px 0;
}

.signup h2{
    color: #fd614d;
    text-align: center;
    margin: 0 0 20px;
}
.signup form{
    border-radius: 1px;
    margin-bottom: 15px;

    background-color: rgba(0,0,0,0.7) !important;
    border: 1px solid none;
    box-shadow: 0px 2px 2px rgba(0,0,0,0.3);
    padding: 30px;
}
.signup .form-group{
    margin-bottom: 30px;
}
.signup .form-control{
    min-height: 38px;
    box-shadow: none !important;
    border-width: 0 0 1px 0;
}
.form-control{
    background-color: transparent;
    color: #fd614d;
}
.form-control:hover {
    background-color: transparent;

```

```
    color: aliceblue;
    overflow: hidden;
    text-decoration: none;
}
.signup .input-group-addon{
    max-width: 42px;
    text-align: center;
    background: none;
    border-bottom: 1px solid aliceblue;
    padding-left: 5px;
}
.input-group-addon{
    font-size: 30px;
}
```

```
.btn{
    background: linear-gradient(259deg,#f64,#f64c72);
    border: none;
    text-align: center;
    padding: 3%;
    font-size: 16px;
    font-weight: bold;
    color: aliceblue;
}
.btn:hover{
    background: aliceblue;
border: none;
color: aliceblue;
color: #fd614d;
}
```

```
.fa{
    color: aliceblue;
}
```

```
.signup .fa-envelope{
    font-size: 23px;
    color: aliceblue;
}
```

```
a{
    color: aliceblue;
    text-decoration: none;
```

```

}

a: hover{
    color: #664a71;
    text-decoration: none;
}

</style>
<body>

    <div class="signup">
        <form action="{{url_for(result)}}" method="post">
            <h2>LOGIN</h2>

            <div class="form-group">
                <div class="input-group">
                    <span class="input-group-addon"><i class="fa fa-envelope"></i></span>
                    <input type="email" name="email" class="form-control" placeholder="Email" required>
                </div>
            </div>

            <div class="form-group">
                <div class="input-group">
                    <span class="input-group-addon"><i class="fa fa-lock"></i></span>
                    <input type="password" name="password" class="form-control" placeholder="password"
required>
                </div>
            </div>

            <div class="form-group">
                <button type="submit" class="btn btn-primary btn-lg btn-block">Login</button>
            </div>

        </form>
    </div>

</body>
</html>

```

```

//app.py
import urllib.request
from colorama import Cursor
from flask import Flask, flash, render_template, request, session, url_for, redirect
import ibm_db
from pythondb import dbconn as db

```

```

try:
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;SECURITY=SSL;
SSLServerCertificateDigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=nhl80748;PWD=3yD0G9e6VuQ
HsOBX;", "", "")
    print("connection Success")
except:
    print("couldn't connect")
app = Flask(__name__)
@app.route("/")
def homepage():
    return render_template("index.html")

@auth.route('/result', methods=['POST'])
def login_post():

    email = request.form.get('email')
    password = request.form.get('password')
    remember = True if request.form.get('remember') else False

    user = User.query.filter_by(email=email).first()
    if not user or not check_password_hash(user.password, password):
        flash('Please check your login details and try again.')
        return redirect(url_for('auth.login'))
    return redirect(url_for("welcome.html"))

if __name__=="__main__":
    app.run(debug=True)

```