

## Practical-11: Python CGI script

1) Develop Login module with CGI script having sign up and sign-in pages:

- A sign up page provide registration functionalities to register user and store user inputted data (like Email, Username and Password) into table with MySQL database.
- A sign-in page provides login functionality where user able to login by using their registration details (Username and Password). If username and password matched with database then it can redirect to welcome page otherwise it return message “login unsuccessful”.

<u>Sign up page</u>	<u>Sign-in page</u>
Enter Email: <input type="text"/>	Username: <input type="text" value="abc"/>
Enter Username: <input type="text"/>	Password: <input type="password" value="..."/>
Enter Password: <input type="password"/>	<input type="button" value="Sign In"/>
<input type="button" value="Sign Up"/> <a href="#">Sign In</a>	

### **CODE :-**

#### • **signup.py :**

```
import cgi,cgitb
import mysql.connector
cgitb.enable()
fs= cgi.FieldStorage()
email=fs.getvalue('em')
user_name=fs.getvalue('un')
passwd=fs.getvalue('pwd')
con=mysql.connector.connect(host='localhost',database='demo1',user='root',
pa ssword='tiger')
cur=con.cursor()
cur.execute('create table if not exists person (username varchar(20) primary
```

```
key, password varchar(20),email text)')
    cur.execute('insert into person
values(%s,%s,%s)',(user_name,passwd,email))
    con.commit()
    con.close()
    print ("Content-type:text/html\r\n")
    print("<html>")
    print("<head><title>My CGI-Program</title></head>")
    print("<body>")
    print("Data successfully inserted")
    print("</body>")
    print("</html>")
```

- **test.html :**

```
<form action = "/cgi-bin/signup.py" method = "get">
    Email: <input type = "text" name = "em"> <br />
    User Name: <input type = "text" name = "un"> <br />
    Password: <input type = "text" name = "pwd"> <br />
    <input type = "submit" value = "Submit" />
</form>
```

- **signin.py :**

```
import cgi,cgitb
import mysql.connector
cgitb.enable()
fs= cgi.FieldStorage()
user_name=fs.getvalue('un')
passwd=fs.getvalue('pwd')
con=mysql.connector.connect(host='localhost',database='demo1',user='root',
password='')
cur=con.cursor()
cur.execute('select password from person where
username=%s',(user_name,))
result=()
result=cur.fetchone()
if result:
    if passwd==result[0]:
        msg="We welcome you here"
    else:
        msg="wrong signin credentials, Try again !!"
else:
    msg="New user? Sign-up first !"
```

```

con.close()
print ("Content-type:text/html\r\n")
print("<html>")
print("<head><title>My CGI-Program</title></head>")
print("<body>")
print(msg)
print("</body>")
print("</html>")

```

- **test1.html :**

```

<form action = "/cgi-bin/signin.py" method = "get">
  User Name: <input type = "text" name = "un"> <br />
  Password: <input type = "text" name = "pwd"> <br />
  <input type = "submit" value = "Submit" />
</form>

```

Email:

User Name:

Password:

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User Name:

Password:

We welcome you here|