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".

<table>
<tr><td align="center">Sign up page</td><td align="center">Sign-in page</td></tr>
<tr><td>
Enter Email: [_____]

Enter Username: [_____]

Enter Password: [_____]

[Sign Up] SignIn
</td><td>
Username: abc

Password: •••

[Sign In]
</td></tr>
</table>

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',
pa ssword='')
    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: brijesh34@gmail.com
User Name: Brijesh76
Password: Brijesh
Submit

User Name: Brijesh76
Password: Brijesh
Submit

We welcome you here