Assignment -1

Python Programming

Assignment Date	19 September 2022
Student Name	T.Manju
Student Roll Number	950919104014
Maximum Marks	2 Marks

Question-1:

Create a registration page in html with username, email and phone number and by using POST method display it in the next html page.

SOLUTION :

app.py

```
from flask import Flask,render_template,request

app=Flask(__name__)

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

@app.route("/register",methods=["POST","GET"])
def register():
    if request.method=="POST":
        username=request.form.get('username')
        email=request.form.get('email')
        phonenumber=request.form.get('phonenumber')
        return
render_template("result.html",username=username,email=email,phonenumber=phonenu
m ber)
if __name__ == '__main__':
    app.run(debug=True)
```

reg.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
    initial-scale=1.0"> <title>Register</title>
    <link rel="stylesheet" href="{{url_for('static',
filename='style.css')}}"> </head>
```

```html
<body>
    <form action="/register" method="POST" autocomplete="off">
        <div class="container">
          <h1>Register</h1>
           <center><p><b>Please fill in this form to create an
account.</b></p></center>
          <label class="form_label"for="email"><b>Username</b></label>
          <br><br>
          <input class="form_input"type="text" name="username"placeholder="Enter
Username" name="username" id="username" required>
          <br><br>
          <label class="form_label"for="email"><b>Email</b></label>
          <br><br>
          <input class="form_input"type="text" name="email"placeholder="Enter
Email" name="email" id="email" required>
          <br><br>
          <label class="form_label"for="psw-repeat"><b>Phone
          number</b></label> <br><br>
          <input class="form_input"type="number"
name="phonenumber"placeholder="Enter Phone number" name="psw-repeat" id="psw
repeat" required>
          <hr>
          <center><button type="submit"
class="submitbtn">Register</button></center>
        </div>
      </form>
</body>
</html>
```

Result.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
    initial-scale=1.0"> <title>Display</title>
    <link rel="stylesheet" href="{{url_for('static',
filename='style.css')}}"> </head>
<body>
    <h1>Output</h1>
    <center><table id="output">
        <tr>
            <th>Username</th>
            <td>{{username}}</td>
        </tr>
        <tr>
            <th>Email Address</th>
            <td>{{email}}</td>
```

```
        </tr>
        <tr>
            <th>Phone number</th>
            <td>{{phonenumber}}</td>
        </tr>
    </table></center>
</body>
</html>
```

Style.CSS

```css
/* Add padding to containers
*/ .container
{
   padding: 16px;
   background-color: white;
}
/* Overwrite default styles of hr
*/ hr
{
   border: 1px solid #f1f1f1;
   margin-bottom: 25px;
}

/* Set a style for the submit button
*/ .submitbtn
{
    background-color: rgb(211, 47,
    41); color: white;
    padding: 16px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    opacity: 0.9;
    border-radius: 10px;
}

  .submitbtn:hover {
    opacity: 1;
  }

  /* Add a blue text color to links
  */ a {
    color: dodgerblue;
  }
.form_label
{
   margin-left: 35%;
}
.form_input
{
   margin-left: 35%;
```

```
    width: 500px;
    height: 42px;
    padding-left: 20px;
    border-radius: 10px;
    border: none;
    background-color: whitesmoke;
}
#output {
    font-family: Arial, Helvetica, sans-serif;
    border-collapse: collapse;
    width: 50%;
}

#output td, #output th {
    border: 1px solid black;
    padding: 8px;
}

#output tr:nth-child(even){background-color: #f2f2f2;}

#output tr:hover {background-color: #ddd;}

#output th {
    padding-top: 12px;
    padding-bottom: 12px;
    text-align: left;
    background-color: rgb(211, 47, 41);
    color: white;
}
```
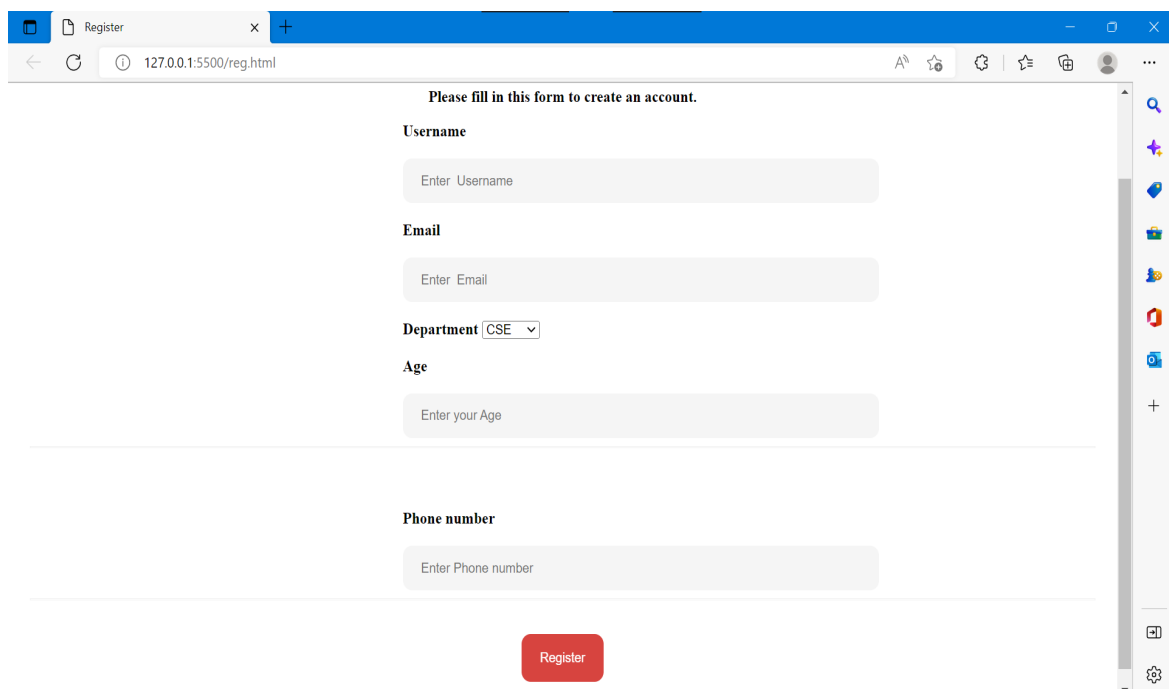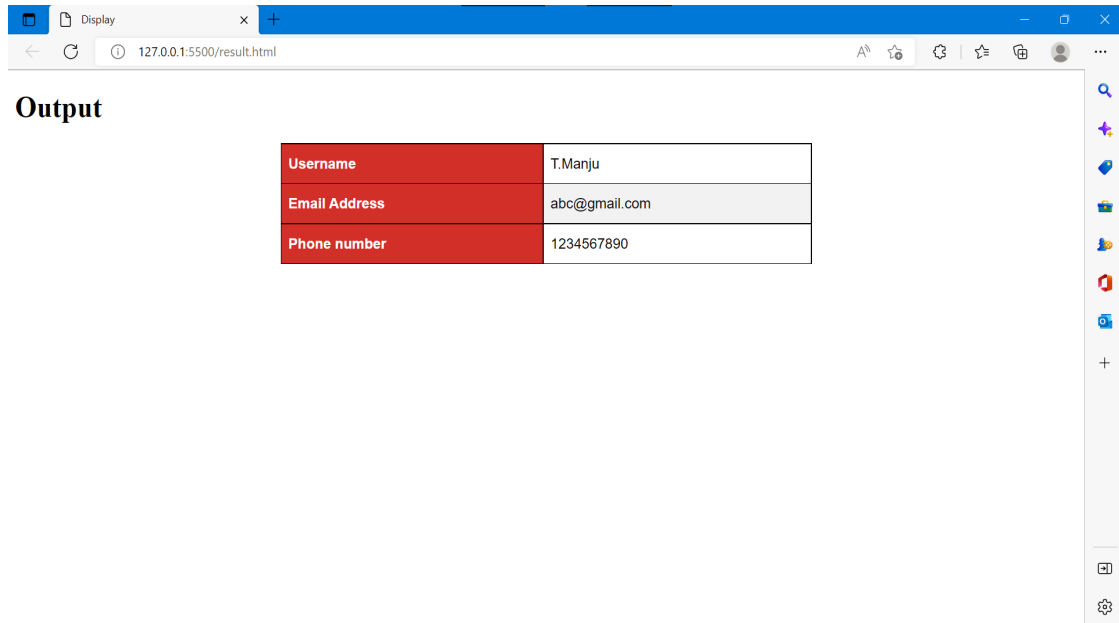
OUTPUT:

Output

Username	T.Manju
Email Address	abc@gmail.com
Phone number	1234567890

Question-2:

Develop a flask program which should contain at least 5 packages used from Solution: **pypi.org**

Packages used:
1. render_template
2. url_for
3. redirect
4. request
5. abort

Program :
python_packages.py

```python
from flask import Flask,render_template,request,redirect,url_for,abort

app=Flask(__name__)

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

@app.route("/register",methods=["POST","GET"])
def register():
 if request.method=="POST":
 username=request.form.get('username')
 email=request.form.get('email')
 phone=request.form.get('phone')
 if username=="admin":
 return redirect(url_for("admin_page"))
     return render_template("home.html",username=username,email=email,phone=phone)

@app.route("/admin")
def admin_page():
 return render_template("admin.html")

@app.route("/validate",methods=["POST","GET"])
def validate_admin():
```

```python
    if request.method=="POST":
    password=request.form.get('password')
    if(password=="abcd"):
    return render_template("admindashboard.html")
    else:
    abort(403)

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

reg.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
    initial-scale=1.0"> <title>Register</title>
    <link rel="stylesheet" href="{{url_for('static',
filename='style.css')}}"> </head>
<body>
    <form action="/register" method="POST" autocomplete="off">
        <div class="container">
          <h1>Register</h1>
           <center><p><b>Please fill in this form to create an
account.</b></p></center>
          <label class="form_label"for="email"><b>Username</b></label>
          <br><br>
          <input class="form_input"type="text" name="username"placeholder="Enter
Username" name="username" id="username" required>
          <br><br>
          <label class="form_label"for="email"><b>Email</b></label>
          <br><br>
          <input class="form_input"type="text" name="email"placeholder="Enter
Email" name="email" id="email" required>
          <br><br>
          <label class="form_label"for="psw-repeat"><b>Phone
          number</b></label> <br><br>
          <input class="form_input"type="number"
name="phonenumber"placeholder="Enter Phone number" name="psw-repeat" id="psw
repeat" required>
          <hr>
          <center><button type="submit"
class="submitbtn">Register</button></center>
        </div>
      </form>
</body>
</html>
```

Result.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
    initial-scale=1.0"> <title>Display</title>
    <link rel="stylesheet" href="{{url_for('static',
filename='style.css')}}"> </head>
<body>
    <h1>Output</h1>
    <center><table id="output">
        <tr>
            <th>Username</th>
            <td>{{username}}</td>
        </tr>
        <tr>
            <th>Email Address</th>
            <td>{{email}}</td>
        </tr>
        <tr>
            <th>Phone number</th>
            <td>{{phonenumber}}</td>
        </tr>
    </table></center>
</body>
</html>
```

Style.CSS

```css
/* Add padding to containers */
.container
{
  padding: 16px;
  background-color: white;
}
/* Overwrite default styles of hr */
hr
{
  border: 1px solid #f1f1f1;
  margin-bottom: 25px;
}

/* Set a style for the submit button */
.submitbtn
{
    background-color: rgb(211, 47, 41);
```

```css
      color: white;
      padding: 16px 20px;
      margin: 8px 0;
      border: none;
      cursor: pointer;
      opacity: 0.9;
      border-radius: 10px;
}

  .submitbtn:hover {
    opacity: 1;
  }

  /* Add a blue text color to links */
  a {
    color: dodgerblue;
  }
.form_label
{
  margin-left: 35%;
}
.form_input
{
  margin-left: 35%;
  width: 500px;
  height: 42px;
  padding-left: 20px;
  border-radius: 10px;
  border: none;
  background-color: whitesmoke;
}
#output {
  font-family: Arial, Helvetica,
  sans-serif; border-collapse: collapse;
  width: 50%;
}

#output td, #output th {
  border: 1px solid black;
  padding: 8px;
}

#output tr:nth-child(even){background-color:

#f2f2f2;} #output tr:hover {background-color: #ddd;}

#output th {
  padding-top: 12px;
  padding-bottom: 12px;
  text-align: left;
  background-color: rgb(211, 47, 41);
```

```
    color: white;
}
```

admin.html
```
<html>
 <head>
 <title>Admin Login</title>
 <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">
</head>
 <body>
 <div class="center"> <br /><br />
 <form action="/validate" method="POST">
 <h2 style="text-align:center">Admin login</h2> <br /><br />

 <p> Enter password:</p>
 <input type="text" name="password"/>
 </br></br></br>
 <input type="submit" value="submit" />
 </form>
 </div>
 </body>
</html>
```

admindashboard.html
```
<html>
<head>
 <title>Admin</title>
</head>
<body>
 <h2 style="text-align:center">Welcome Administartor </h2><br/><br/>
<p><b>Who is an administrator?</b></p></br>
 <p>Web administrators design, develop, maintain and troubleshoot websites. Most  importantly,
they ensure a safe and efficient user experience. This may include implementing  security
protocols, modifying programs, creating backups, resolving software problems,  updating
content and more. They may work with many clients or for one organization to design,  program
and monitor websites.Specific responsibilities include:</p>
 <ul>
 <li>Coding websites – the most popular languages include HTML and JavaScript</li>
<li>Collaborating with development teams to program websites</li>  <li>Setting up tools
to monitor website traffic</li>
 <li>Analyzing website traffic to inform design decisions</li>
 </ul>
</body>
</html>
```
OUTPUT:

Register

Please fill in this form to create an account.

Username

Enter Username

Email

Enter Email

Department CSE

Age

Enter your Age

Phone number

Enter Phone number

Register

Display

127.0.0.1:5500/result.html

Output

Username	T.Manju
Email Address	abc@gmail.com
Phone number	1234567890

Admin Login

127.0.0.1:5500/result.html

Admin login

Enter password:

submit

Welcome Administartor

Who is an administrator?

Web administrators design, develop, maintain and troubleshoot websites. Most importantly, they ensure a safe and efficient user experience. This may include implementing security protocols, modifying programs, creating backups, resolving software problems, updating content and more. They may work with many clients or for one organization to design, program and monitor websites.Specific responsibilities include:

- Coding websites – the most popular languages include HTML and JavaScript
- Collaborating with development teams to program websites
- Setting up tools to monitor website traffic
- Analyzing website traffic to inform design decisions