Assignment -1
Python Programming

Assignment Date	19 September 2022
Student Name	MATHUMITHA.ssR
Student Roll Number	91311910454
Maximum Marks	2 Marks

Question-1:

Create registration page in html with username, email and phone number and by using POST method display it in 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=phonenum
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>
<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

```
<!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>
```

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

Style.html

```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;
```

```css
    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;
}
```

Question-2:

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

Solution:

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"))
```

```python
        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():
    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

```
<!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.html

```
/* Add padding to containers */
.container
{
  padding: 16px;
  background-color: white;
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  margin-bottom: 25px;
```

```css
}

/* 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;
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  /* Add a blue text color to links */
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.form_label
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}
.form_input
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  width: 500px;
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  padding-left: 20px;
  border-radius: 10px;
  border: none;
  background-color: whitesmoke;
}
#output {
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#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>
```