Assignment Date	19 September 2022
Maximum Marks	2 Marks

Question-1:

Create registration page in html with username, email and phone number and by using POSTmethod display it in next html page.

SOLUTION :

app.py

```
from flask import Flask,render_template,requestapp=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=phonenumber)
if name == ' main ':
    app.run(debug=True)
```

reg.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <metahttp-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">
```

```html
                <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="EnterUsername"
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="EnterEmail"
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">
    <metahttp-equiv="X-UA-Compatible"    content="IE=edge">
    <meta name="viewport"  content="width=device-width,  initial-scale=1.0">
    <title>Display</title>
    <linkrel="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;
}
/* 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

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():
    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">
    <metahttp-equiv="X-UA-Compatible"    content="IE=edge">
    <meta  name="viewport"  content="width=device-width,  initial-scale=1.0">
```

```html
        <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="EnterUsername"
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="EnterEmail"
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">
    <metahttp-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;
}
/* 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;
}
```

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>
```