

ASSIGNMENT - 1

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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:

File: app/__init__.py

```
from flask import Flask
app = Flask(__name__)
```

File: app.py from app import app from flask import
render_template, request, redirect, url_for

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

@app.route('/home/?<name>&<email>&<phone>') def
home(name, email, phone):
    return render_template('home.html', name=name, email=email, phone=phone)
if __name__ ==
'__main__':
    app.run()
```

File: /app/templates/register.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" />
    <link rel= "stylesheet" type= "text/css" href= "{{
url_for('static',filename='styles/style.css') }}">
    <title>Register</title>
  </head>
  <body>
    <div class="container">
      <h1>REGISTER</h1>
      <form action="{{ url_for('register') }}" method="post">
        <label for="username">Username</label> <br />
        <input
          type="text"
name="username"
id="username"
placeholder="Enter Username"
        />
        <br />
        <label for="email">Email</label> <br />
        <input
          type="email"
name="email"
id="email"
placeholder="Enter Email ID"
        />
        <br />
        <label for="phone">Phone Number</label> <br />
        <input
          type="text"
name="phone"
id="phone"
placeholder="Enter Phone Number"
        />
```

```
        <br />
        <button type="submit">Register</button>
    </form>
</div>
</body>
</html>
```

File: app/templates/home.html

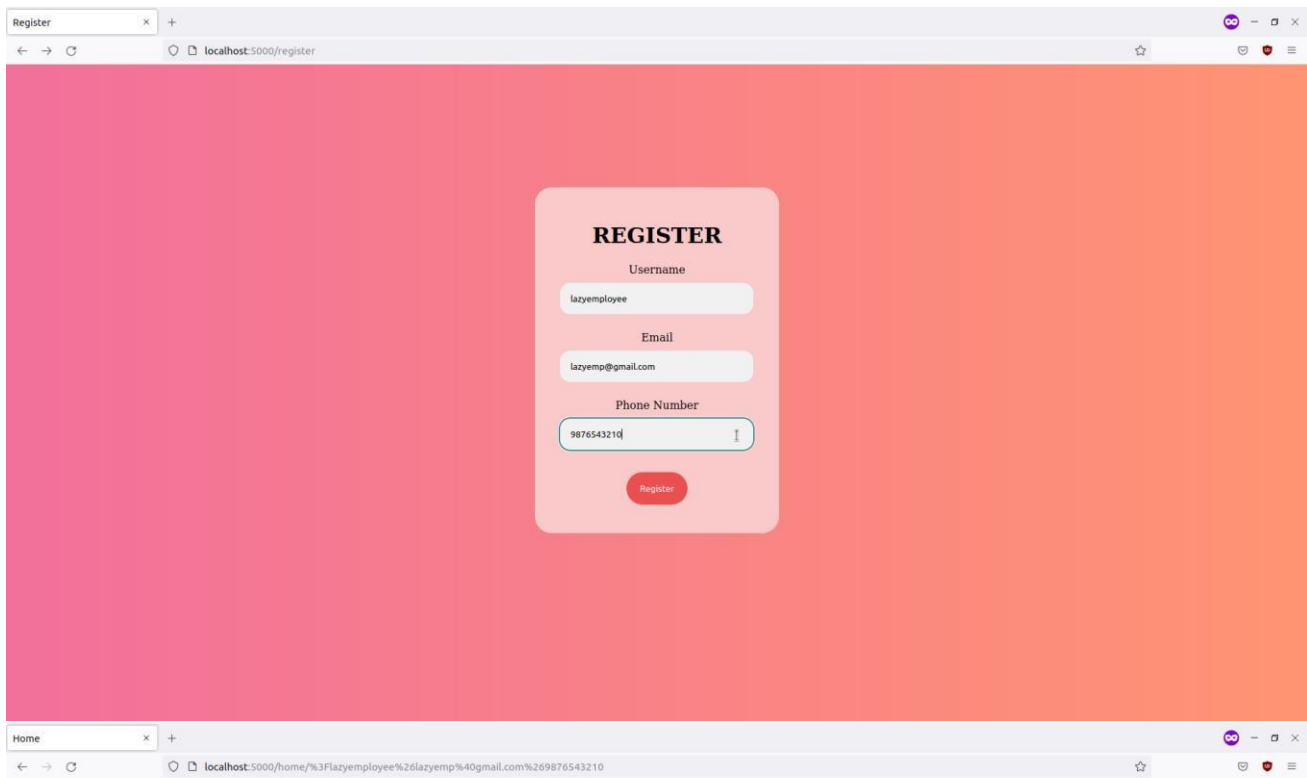
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Home</title>
</head>
<body>
    <h1>Name: {{name}}</h1>
    <h1>Email: {{email}}</h1>
    <h1>Phone: {{phone}}</h1>
</body>
</html>
```

File: /app/static/styles/style.css body

```
{
    background-image: linear-
gradient(to right,    rgb(242,
112, 156),    rgb(255, 148, 114) );
} .container {
    position: absolute;
top: 45%; left: 50%; margin-right:
-50%; transform: translate(-50%, -
50%); padding: 30px; width: 300px;
height: 450px; text-align: center;
```

```
border-radius: 25px; background-
color: rgb(250, 202, 202);
} .container button {
background-color: #eb4f4f;
color: white; padding:
16px 20px; margin: 8px 0;
border: none; border-
radius: 30px; cursor:
pointer; } input { width:
85%; padding: 15px 15px;
margin: 10px 0 25px 0;
border: none; border-
radius: 15px; background:
#f1f1f1;
}
```

OUTPUT:



Name: lazyemployee

Email: lazyemp@gmail.com

Phone: 9876543210

Question 2:

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

Solution:

File: app/__init__.py

```
from flask import Flask  
app = Flask(__name__)
```

```

File: app.py from app import app from flask import
render_template, request, redirect, url_for import random, math

@app.route('/')
@app.route('/index', methods=['GET', 'POST'])
def index():    if request.method == 'POST':
                favnumber = int(request.form.get('favnumber'))
luckynumber = math.sqrt(random.randint(20, 100) * favnumber)
result = eval('2*luckynumber+1')          print(result)          return
redirect(url_for('home', result=result))    return
render_template('index.html')

@app.route('/home?<result>') def
home(result):
    return render_template('home.html', result=result)

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

```

File: /app/templates/index.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>Flask App</title>
    </head>
    <style>
        div {
position: absolute;          top: 45%;
left: 50%;          margin-right: -50%;
transform: translate(-50%, -50%);
        }

```

```

</style>
<body>
    <div>
        <form action="{{ url_for('index') }}" method="post">
            <label for="favnumber">Fav Number</label> <br />
            <input
                type="text"
name="favnumber"
id="favnumber"
placeholder="Enter fav number"
            />
            <br />
            <button type="submit">Submit</button>
        </form>
    </div>
</body>
</html>

```

File: /app/templates/home.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>Document</title>
    </head>
    <body>
        <div>
            <h1>Your new lucky number {{result}}</h1>
            <p>pypi packages that were used include:</p>
            <ul>
                <li>flask</li>
                <li>request</li>
                <li>random</li>

```

```
        <li>math</li>
        <li>eval</li>
    </ul>
</div>
</body>
</html>
```

OUTPUT:



Fav Number



Your new lucky number 58.82732917920384

pypi packages that were used include:

- flask
- request
- random
- math
- eval