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

```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"

        />
```

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

File: app/templates/home.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>Home</title>
</head>
<body>
    <h1>Name: {{name}}</h1>
    <h1>Email: {{email}}</h1>
<h1>Phone: {{phone}}</h1>
</body>
</html>
```
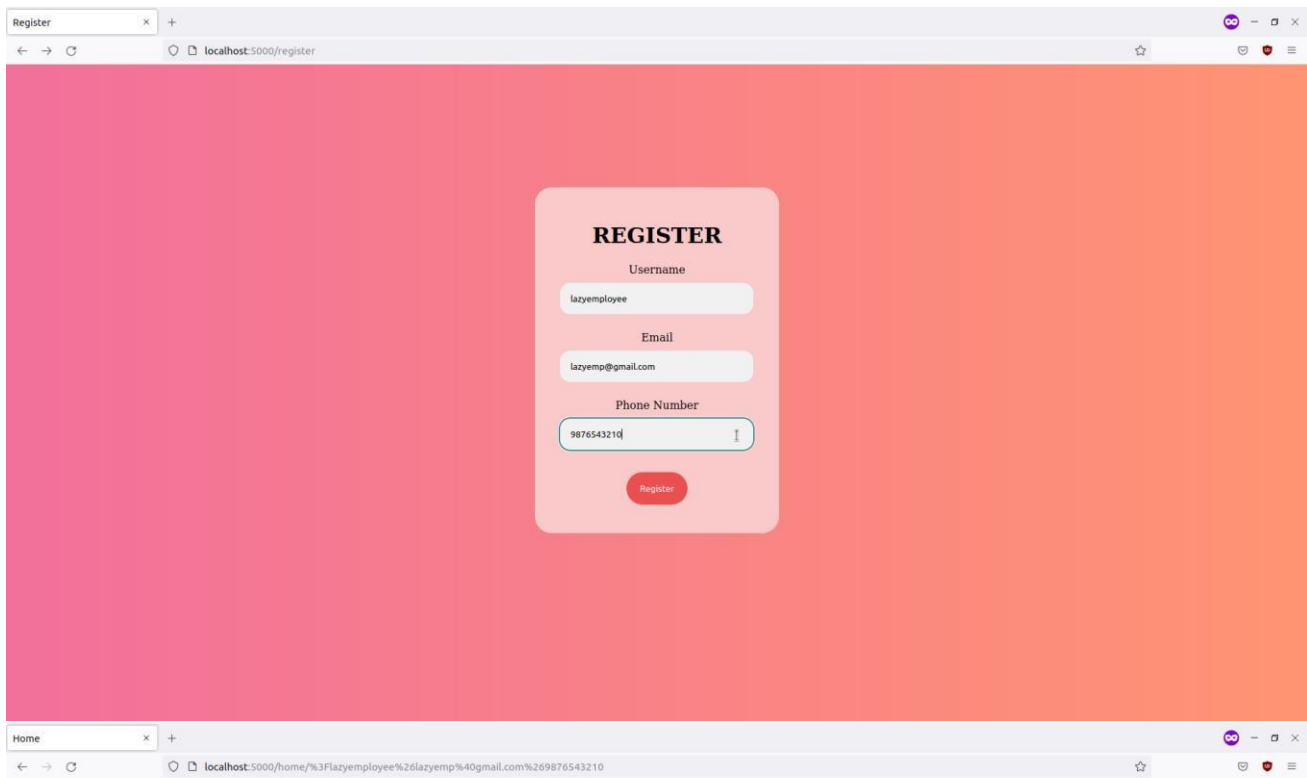
File: /app/static/styles/style.css body

```css
{       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;
```

```css
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

```python
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

```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%);
    }
```

```html
    </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

```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:

Your new lucky number 58.82732917920384

pypi packages that were used include:

- flask
- request
- random
- math
- eval