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"
        />
        <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(
```

```css
      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
<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>
```
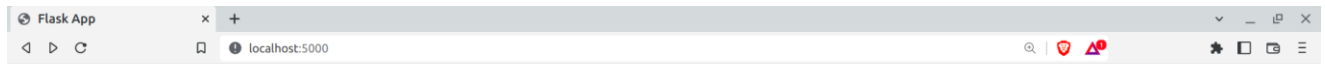
File: /app/templates/home.html

```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>
```
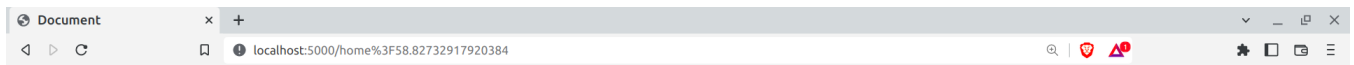
OUTPUT:

Fav Number

11

Submit

Your new lucky number 58.82732917920384

pypi packages that were used include:

- flask
- request
- random
- math
- eval