Assignment -1

Assignment Date	27 September 2022
Student Name	Karthick V
Student Roll Number	737819ECR073
Maximum Marks	2 Marks

Question-1:

Create registration page in HTML with username, email and phone number and by using POST method display it on next HTML page.

App.py

```python
from flask import Flask, request, render_template



app = Flask(__name__)

app.config['DEBUG'] = True



@app.route('/login', methods=("POST", "GET"))

def login():

    name = request.form['name']

    mobile = request.form['mobile']

    email = request.form['email']

    return f'{name} register mobile num as {mobile} and email as {email}'



@app.route('/')

def home():

    return render_template('index.html')



if__name__== '__main__':
```

```
        app.run()
```

Templates/index.html

```html
<!DOCTYPE html>

<html lang="en">



<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>Simple Reistration Form</title>

    <link rel="stylesheet" href="{{ url_for('static', filename='css/index.css')
}}">

</head>



<body>

    <form method="POST" action="http://127.0.0.1:5000/login">

        <div class="container">

            <h1>Sign Up</h1>

            <p>Please fill in this form to create an account.</p>



            <label><b>Username</b></label>

            <input type="text" name="name" placeholder="Enter Username"
required>

            <label><b>Email</b></label>

            <input type="email" placeholder="Enter Email" name="email"
required>
```

```html
        <label><b>Phone Number</b></label>

        <input type="phone" name="mobile" placeholder="812345678" required>

        <div class="clearfix">

            <button type="submit" class="btn">Sign Up</button>

        </div>

    </div>

</form>

</body>


</html>
```

Index.css

```css
@import
url('https://fonts.googleapis.com/css?family=Montserrat:400,500&display=swap')
;


body {

 font-family: Montserrat,Arial, Helvetica, sans-serif;

 background-color:#f7f7f7;

}
* {box-sizing: border-box}


.container {

   padding: 20px;

     width:500px;

   position: absolute;

   left: 50%;
```

```css
    top: 50%;

    transform: translate(-50%, -50%);

      border:1px solid #ccc;

      border-radius:10px;

      background:white;

  -webkit-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);

  -moz-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);

  box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);

  }


input[type=text], input[type=email], input[type=phone] {

 width: 100%;

 padding: 15px;

 margin: 5px 0 22px 0;

 display: inline-block;

 border: none;

 background: #f7f7f7;

 font-family: Montserrat,Arial, Helvetica, sans-serif;

}


select {

 width: 18%;

 padding: 15px;

 margin: 5px 0 22px 0;

 display: inline-block;

 border: none;
```

```css
  background: #f7f7f7;

  font-family: Montserrat,Arial, Helvetica, sans-serif;

}


input[type=text]:focus, input[type=password]:focus, input[type=phone]:focus,
select:focus {

  background-color: #ddd;

  outline: none;

}

button {

  background-color: #0eb7f4;

  color: white;

  padding: 14px 20px;

  margin: 8px 0;

  border: none;

  cursor: pointer;

  width: 100%;

  opacity: 0.9;

  font-size:16px;

  font-family: Montserrat,Arial, Helvetica, sans-serif;

  border-radius:10px;

}
@media screen and (max-width: 300px) {

  .signupbtn {

    width: 100%;

  }

}
```

Output:

Sign Up

Please fill in this form to create an account.

Username Karthick   **Email** Karthikv@gmail.com   **Phone Number** 9812345678

Sign Up

Karthick register mobile num as 9812345678 and email as Karthikv@gmail.com

Question-2:

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

App,py

```python
from flask import Flask

import pandas as pd
import numpy as np
import datetime as dt
from flask_cors import CORS
from scipy import constants

app = Flask(_name_)
CORS(app)
app.config['DEBUG'] = True

@app.route('/')
def home():
    # Pandas
    print('----------------------------------------------------------------------------- ')
    a = [1, 7, 2]
    myvar = pd.Series(a)
    print(myvar)

    # Numpy
    print('----------------------------------------------------------------------------- ')
    arr = np.array([1, 2, 3, 4, 5])
    print(arr)
    print(type(arr))

    # Datetime
    print('----------------------------------------------------------------------------- ')
    today = dt.date.today()
    print(today)

    # Scipy
    print('----------------------------------------------------------------------------- ')
    print(constants.liter)
```

```python
    print('-------------------------------------------------------------------------------- ')

    return '5 packages used<br/>Pandas Numpy DateTime Scipy Flask-Cors'


if __name__ == '__main__':
    app.run()
```

Output:

Terminal

```
 * Detected change in '/Users/nanthakumaran/Development/IBM-Project-22078-1659803251/Assignments/Team Lead/Assignment 1/Packages P
rogram/app.py', reloading
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 122-915-974
 * Detected change in '/Users/nanthakumaran/Development/IBM-Project-22078-1659803251/Assignments/Team Lead/Assignment 1/Packages P
rogram/app.py', reloading
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 122-915-974
------------------------------------------------------------
0    1
1    7
2    2
dtype: int64
------------------------------------------------------------
[1 2 3 4 5]
<class 'numpy.ndarray'>
------------------------------------------------------------
2022-10-17
------------------------------------------------------------
0.001
------------------------------------------------------------
127.0.0.1 - - [17/Oct/2022 21:03:04] "GET / HTTP/1.1" 200 -
```

127.0.0.1:5000

5 packages used
Pandas Numpy DateTime Scipy Flask-Cors