

## Assignment -1

Assignment Date	19 September 2022
Student Name	Rajesh R
Student Roll Number	737819ECR136
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](#)

```
registration > app.py
1  from flask import Flask, request, render_template
2
3  app = Flask(__name__)
4  app.config['DEBUG'] = True
5
6
7  @app.route('/login', methods=("POST", "GET"))
8  def login():
9      name = request.form['name']
10     mobile = request.form['mobile']
11     email = request.form['email']
12     return f'{name} register mobile num as {mobile} and email as {email}'
13
14
15 @app.route('/')
16 def home():
17     return render_template('index.html')
18
19
20 if __name__ == '__main__':
21     app.run()
```

templates/index.html:

registration > templates > index.html > ...

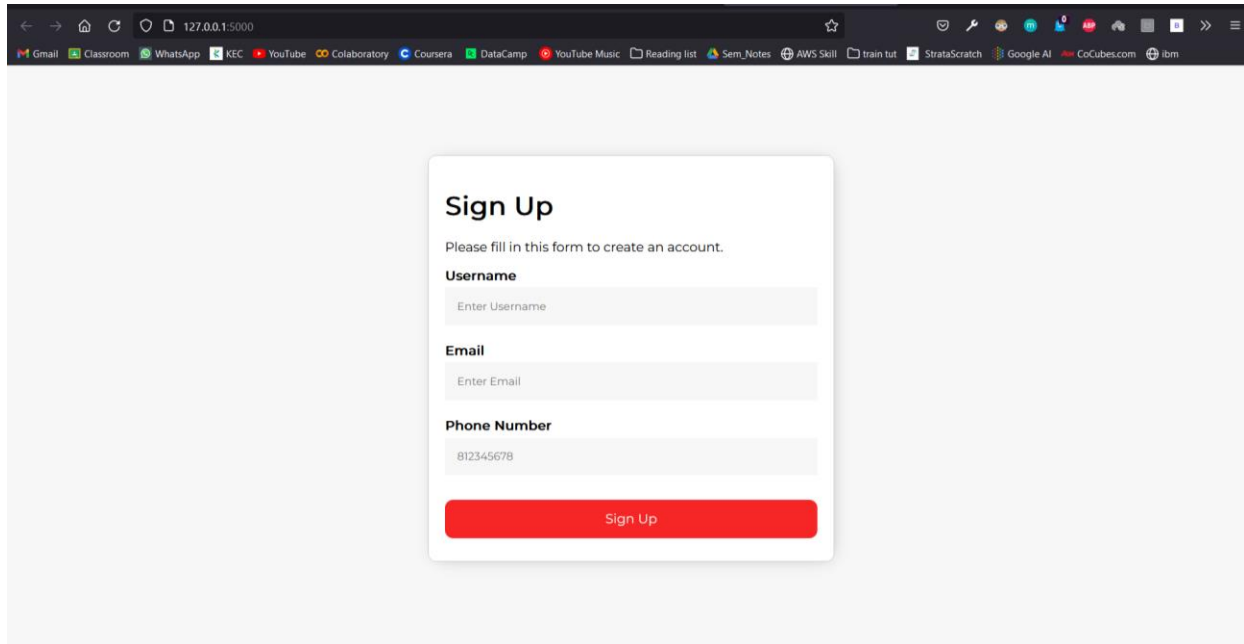
```
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <meta http-equiv="X-UA-Compatible" content="ie=edge">
8      <title>Simple Reistration Form</title>
9      <link rel="stylesheet" href="{{ url_for('static', filename='css/index.css') }}">
10 </head>
11
12 <body>
13     <form method="POST" action="http://127.0.0.1:5000/login">
14         <div class="container">
15             <h1>Sign Up</h1>
16             <p>Please fill in this form to create an account.</p>
17
18             <label><b>Username</b></label>
19             <input type="text" name="name" placeholder="Enter Username" required>
20             <label><b>Email</b></label>
21             <input type="email" placeholder="Enter Email" name="email" required>
22
23             <label><b>Phone Number</b></label>
24             <input type="phone" name="mobile" placeholder="812345678" required>
25             <div class="clearfix">
26                 <button type="submit" class="btn">Sign Up</button>
27             </div>
28         </div>
29     </form>
30 </body>
31
32 </html>
33
```

static/css/index.css:

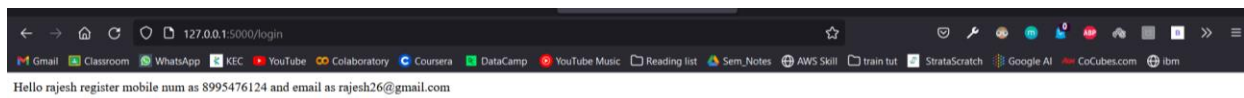
```
registration > static > css > # index.css > ...
1  @import url('https://fonts.googleapis.com/css?family=Montserrat:400,500&display=swap');
2
3  body {
4      font-family: Montserrat,Arial, Helvetica, sans-serif;
5      background-color: #f7f7f7;
6  }
7  * {box-sizing: border-box}
8
9  .container {
10     padding: 20px;
11     width: 500px;
12     position: absolute;
13     left: 50%;
14     top: 50%;
15     transform: translate(-50%, -50%);
16     border: 1px solid #ccc;
17     border-radius: 10px;
18     background: white;
19     -webkit-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
20     -moz-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
21     box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);
22 }
23
24 input[type=text], input[type=email], input[type=phone] {
25     width: 100%;
26     padding: 15px;
27     margin: 5px 0 22px 0;
28     display: inline-block;
29     border: none;
30     background: #f7f7f7;
31     font-family: Montserrat,Arial, Helvetica, sans-serif;
32 }
33 select {
34     width: 18%;
35     padding: 15px;
36     margin: 5px 0 22px 0;
37     display: inline-block;
```

```
registration > static > css > # index.css > ...
37     display: inline-block;
38     border: none;
39     background: #f7f7f7;
40     font-family: Montserrat,Arial, Helvetica, sans-serif;
41 }
42
43 input[type=text]:focus, input[type=password]:focus, input[type=phone]:focus, select:focus {
44     background-color: #ddd;
45     outline: none;
46 }
47
48
49 button {
50     background-color: #f40e0e;
51     color: white;
52     padding: 14px 20px;
53     margin: 8px 0;
54     border: none;
55     cursor: pointer;
56     width: 100%;
57     opacity: 0.9;
58     font-size:16px;
59     font-family: Montserrat,Arial, Helvetica, sans-serif;
60     border-radius:10px;
61 }
62
63 button:hover {
64     opacity:1;
65 }
66
67
68 @media screen and (max-width: 300px) {
69     .signupbtn {
70         width: 100%;
71     }
72 }
```

Output:



A screenshot of a web browser displaying a 'Sign Up' form. The browser's address bar shows the URL '127.0.0.1:5000'. The form is centered on a light gray background and consists of a white box with a shadow. Inside the box, the title 'Sign Up' is at the top, followed by the instruction 'Please fill in this form to create an account.' Below this are three input fields: 'Username' with the placeholder 'Enter Username', 'Email' with the placeholder 'Enter Email', and 'Phone Number' with the placeholder '812345678'. At the bottom of the form is a prominent red button labeled 'Sign Up'.



A screenshot of a web browser showing a confirmation message. The browser's address bar shows the URL '127.0.0.1:5000/login'. Below the address bar, the message reads: 'Hello rajesh register mobile num as 8995476124 and email as rajesh26@gmail.com'.

## Question2:

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

```
program > app.py
1  from flask import Flask
2
3  import pandas as pd
4  import numpy as np
5  import datetime as dt
6  from flask_cors import CORS
7  from scipy import constants
8
9  app = Flask(__name__)
10 CORS(app)
11 app.config['DEBUG'] = True
12
13 @app.route('/')
14 def home():
15     # Pandas
16     print('-----')
17     a = [1, 7, 2]
18     myvar = pd.Series(a)
19     print(myvar)
20
21     # Numpy
22     print('-----')
23     arr = np.array([1, 2, 3, 4, 5])
24     print(arr)
25     print(type(arr))
26
27     # Datetime
28     print('-----')
29     today = dt.date.today()
30     print(today)
31
32     # Scipy
33     print('-----')
34     print(constants.liter)
35
36     print('-----')
37
38
39
40 if __name__ == '__main__':
41     app.run()
```

Output:

### Terminal -

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  COMMENTS

* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 540-055-297
-----
0   1
1   7
2   2
dtype: int64
-----
[1  2  3  4  5]
<class 'numpy.ndarray'>
-----
2022-10-18
-----
0.001
-----
127.0.0.1 - - [18/Oct/2022 22:03:45] "GET / HTTP/1.1" 200 -
█
```

### Browser:

