PRANIIS R

Assignment - 1

1. Create a registration page in html with username, email and phone number and by using POST method display it in the next html page.

template/registration.html

```
<!DOCTYPE html>
<html>

<head>
   <meta charset="utf-8" />
   <title>Register</title>
   <style>
      body {
         font-family: Times New Roman;
         font-weight: bold;
      }
      h1 {
         font-family: Times New Roman;
         opacity: 0.4;
      }
      input {
         width: 50%;
         padding: 12px 20px;
         margin: 8px 0;
         display: inline-block;
         border: 1px solid #ccc;
         border-radius: 4px;
         box-sizing: border-box;
      }
   </style>
</head>

<body>
   <center>
      <h1>Assignment 1</h1>
   </center>
   <div>
      <h3>Registration form</h3>
      <form method="POST" action="/">
         <label for="name">
            <input type="text" name="username" id="username" placeholder="Username">
         </label><br />
         <label for="email">
            <input type="email" name="email" id="email" placeholder="Email">
         </label><br />
         <label for="phone">
            <input type="text" name="phone" id="phone" placeholder="Phone">
         </label><br />
         <input type="submit" value="Register">
      </form>
   </div>
</body>
</html>
```

template/user.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>User Details</title>
</head>

<body>
    <div>
        You have successfully registered
        <br />
        Your details are as follows
    </div>
    {% for key, value in result.items() %}
    <span><strong>{{key}}:</strong></span>
    <span>{{value}}</span><br>
    {% endfor %}
</body>

</html>
```

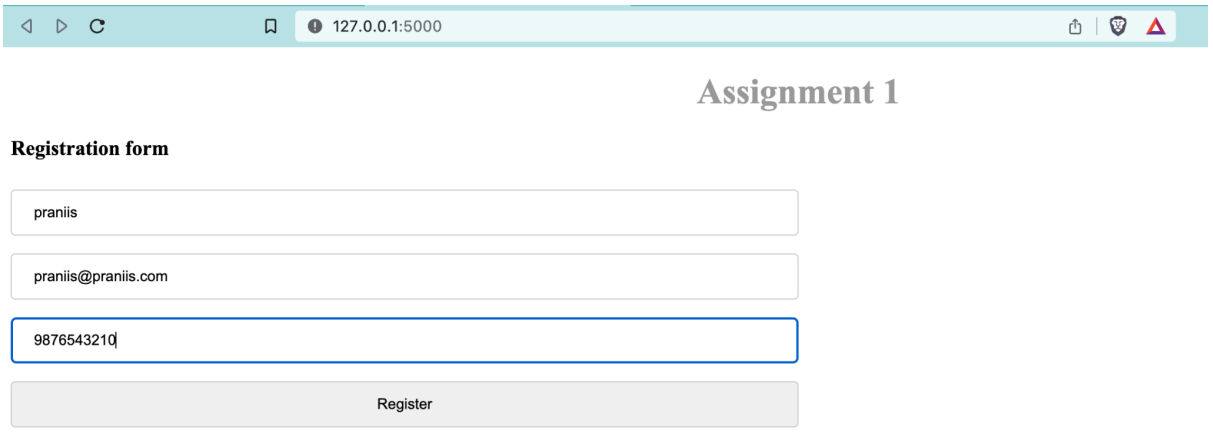
app.py

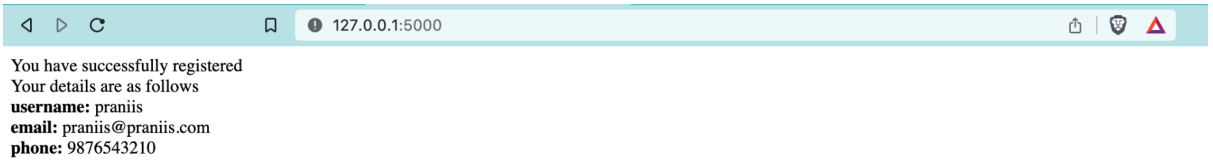
```
from urllib import request
from flask import Flask
from flask import render_template,request

app = Flask(__name__)

@app.route("/", methods=["GET", "POST"])
def register():
    if request.method=="POST":
        result=request.form
        return render_template("user.html",result=result)
    return render_template("registration.html")
```

Output:





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

app.py

```
import os
import base64
import DateTime
import requests
from datetime import datetime
from flask import Flask, request, jsonify

app = Flask(__name__)

@app.route('/')
def main():
    headers_list = request.headers.getlist("X-Forwarded-For")
    user_ip = headers_list[0] if headers_list else request.remote_addr
    if user_ip == "127.0.0.1":
        user_ip = ""

    url =
f"http://ip-api.com/json/{user_ip}?fields=status,message,continent,continentCode,country,countryCode,r
egion,regionName,city,district,zip,lat,lon,timezone,offset,currency,isp,org,as,asname,reverse,mobile,prox
y,hosting,query"
    response = requests.get(url)
    result = response.json()
    if result.get("status") == "fail":
        return jsonify(result)

    if 200 <= response.status_code < 300:
        ip = result.get("query")
        ip_bytes = ip.encode("ascii")
        return jsonify(
            ip = ip,
            location = result.get('location'),
            lat = result.get('lat'),
            lon = result.get('lon'),
            timestamp = datetime.now(),
            base64OfIP = str(base64.b64encode(ip_bytes))
        )
    else:
        return jsonify(result)
```

```
if __name__ == '__main__':
    app.run(debug = False if os.environ.get('DEBUG') == 'False' else True)
```

Output: