

Assignment -1

Assignment Date	10 October 2022
Student Name	Selva Yogiraam C
Student Roll Number	9517201904143
Maximum Marks	2 Marks

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:

App.py:

```
from flask import Flask, render_template, redirect, request
app = Flask(__name__)

@app.route('/login', methods = ['GET', 'POST'])
def login():
    if request.method == 'POST':
        print("in post of login")
        username = request.form.get('username')
        email = request.form.get('email')
        print(email)
        phn= request.form['phn']
        print(phn)
        return render_template('afterlogin.html', username = username, email=
email, phn = phn)
    else:
        print("in else of login")
        return render_template('login.html')

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

base.html:

```
<html>
  <head>

    <link rel="stylesheet" href="static/css/main.css"/>
    {% block head %}

    {% endblock %}
```

```
</head>
<body>

    {% block body %}

    {% endblock %}

</body> </html>
```

Main.css

```
body{
    font-family: Helvetica;
    background-image:url(ccare.gif);
    background-size:cover;
}

.title{

    background: rgb(31, 41, 180);
    padding: 5px;
}

.login{

    background: gray;
    opacity:0.69;
    padding: 10px;
    width: 29%;
    border-radius: 1cm;
}

label{
    display:inline-block;
    width:200px;
    margin-right:30px;
    text-align:right;
}
.txtbox{
    overflow: hidden;
    border-radius:0.5em;
}

fieldset{
    border:none;
    width:500px;
    margin:0px auto;
}
```

```
.sub{
  background-color: grey;
  color: black;
  border-radius: 1rem;
  padding: 10px;
  cursor: pointer;
}

.sub:hover{
  background-color: black;
  color: white;
}

button:hover{
  background-color: black;
  color: white;
}

.formpad{
  padding: 10px;
}
```

login.html:

```
{% extends 'base.html' %}

{% block head %}
<title>Login</title>
{% endblock %}

{% block body %}

<div >
  <marquee>
    <h1>
      Register now!!!
    </h1>
  </marquee>
</div>

<br>
<br>
<center>
  <div class="login" align="left">
```

```

        <left>
            <form action="/login" class="formpad" method="POST">
                <fieldset>
                    <label for="txtClassroomName">Name:</label><input
type="text" size="10" class="txtbox"><br><br>
                    <label for="txtSchoolName">Age:</label><input
type="text" size="10" class="txtbox"><br><br>
                    <label for="txtSchoolEmail">Username</label><input
type="text" size="10" class="txtbox" name="username"><br><br>
                    <label for="txtSchoolEmail">Password:</label><input
type="password" size="10" class="txtbox" ><br><br>
                    <label for="txtSchoolEmail">Email:</label><input
type="text" size="10" class="txtbox" name="email"><br><br>
                    <label for="txtSchoolEmail">Phone Number:</label><input
type="text" size="10" class="txtbox" name="phn"><br><br>
                </fieldset>
                <center><input type="submit" class="sub"
value="Register"></center>
            </form>
        </left>
    </div>

</center>

{% endblock %}

```

afterlogin.html:

```

{% extends 'base.html' %}

{% block head %}
<title>Login</title>
{% endblock %}
<style>
    .register{
        background-image: url(registerd.gif);
        background-size: cover;
        background: gray;
        opacity:0.69;
        padding: 10px;
        width: 29%;
        border-radius: 1cm;
    }
</style>

{% block body %}

<div class="title">

```

```

        <center>
            <br>
            <h1>
                You successfully registered!!
            </h1>
        </center>
</div>
<br>
<hr>
<br>
<center>

    <center>
        <div class="register">
            <h3>
                Username: {{ username }}
                <br><br>
                E-mail: {{ email}}
                <br><br>
                Phone Number: {{ phn }}
                <br><br>
            </h3>
        </center>
    </div>
</center>

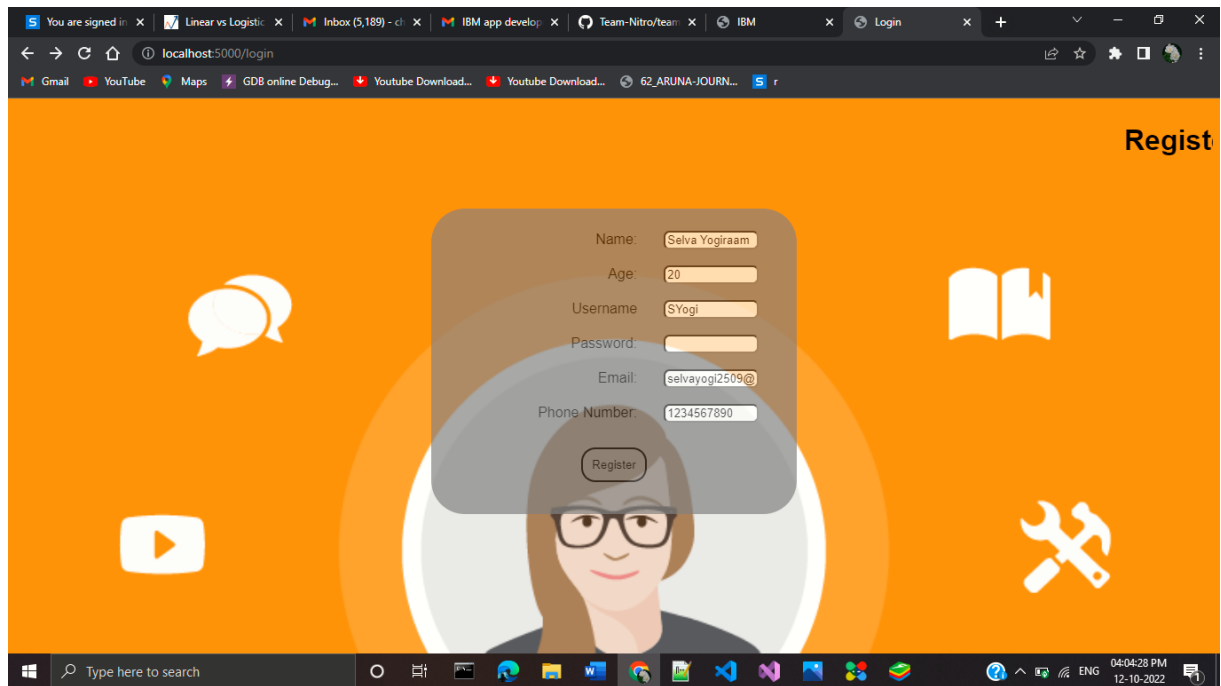
{% endblock %}

```

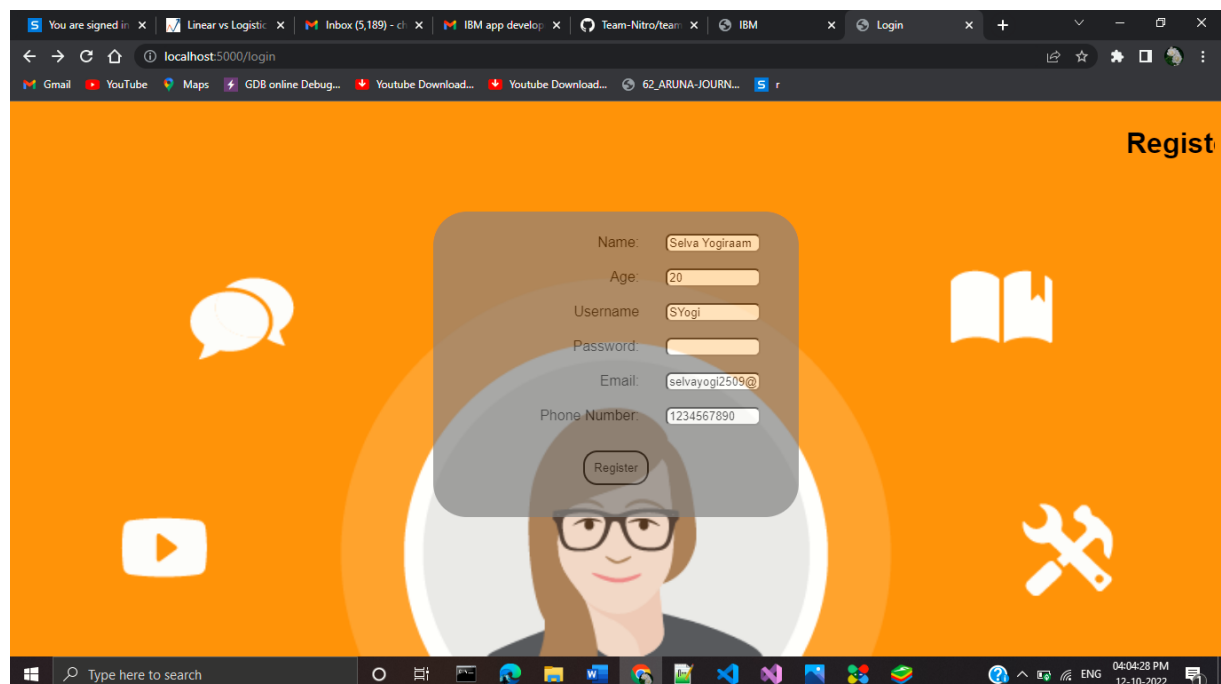
Output:

Before:

Entering Details:



After register:



Question-2:

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

Solution:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import pendulum
from flask import Flask
import io
from flask import Response
from matplotlib.backends.backend_agg import FigureCanvasAgg as FigureCanvas
from matplotlib.figure import Figure
import seaborn as sns

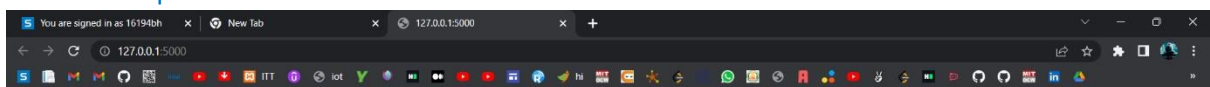
app = Flask(__name__)
@app.route('/')
def check():
    x = 5
    y = 6
    z = np.add(x, y)
    return ' %d' % z
@app.route('/plot')
def plot_png():
    plt.rcParams["figure.figsize"] = [7.50, 3.50]
    plt.rcParams["figure.autolayout"] = True
    fig = Figure()
    axis = fig.add_subplot(1, 1, 1)
    xs = np.random.rand(100)
    ys = np.random.rand(100)
    axis.plot(xs, ys)
    output = io.BytesIO()
    FigureCanvas(fig).print_png(output)
    return Response(output.getvalue(), mimetype='image/png')
@app.route('/pandas')
def pandas():
    ser = pd.Series([0.25, 0.7, 0.5])
    return ' %f' % ser[0]
@app.route('/seaborn')
def seaborn():
    fig = Figure()
    x = [i for i in range(100)]
    y = [i for i in range(100)]
    sns.set()
    fig, ax = plt.subplots(1, 1)
```

```

sns.lineplot(x,y)  img =
io.BytesIO()
    FigureCanvas(fig).print_png(img)
    return Response(img.getvalue(),mimetype='img/png')
@app.route('/pendulum') def
pendulum1():
    local = pendulum.local(2020, 11,27)
    zone=local.timezone.name    return
'%s' %zone if __name__ ==
'__main__':  app.run()

```

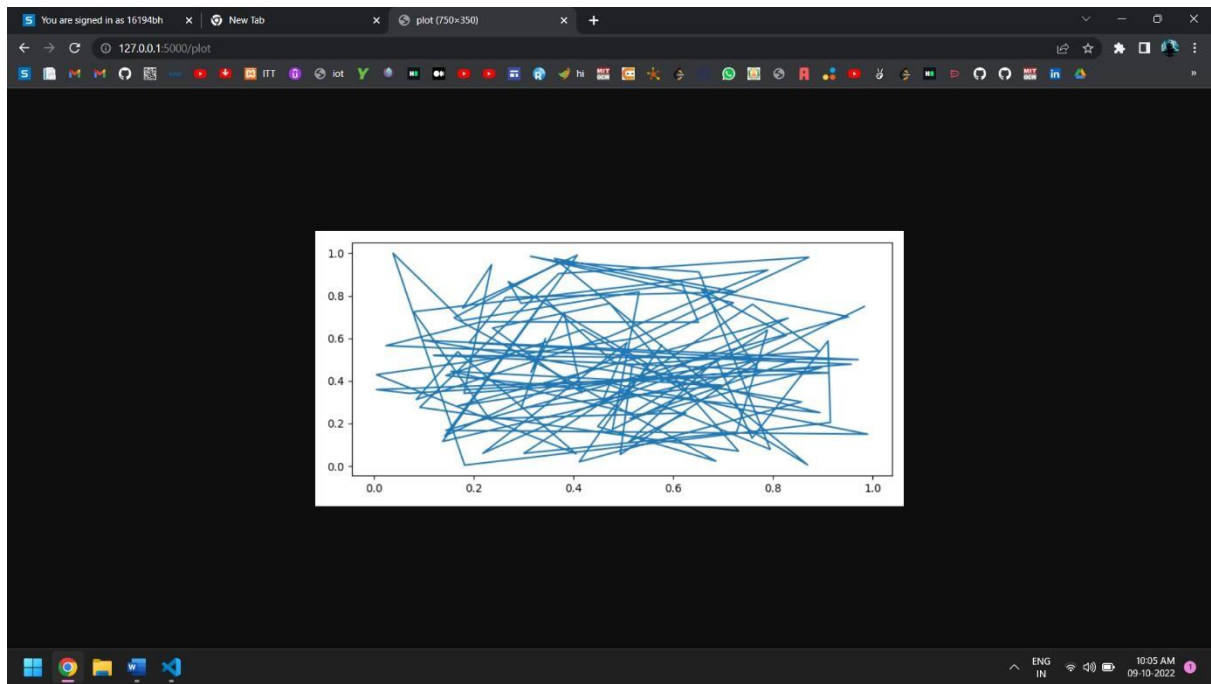
For np:



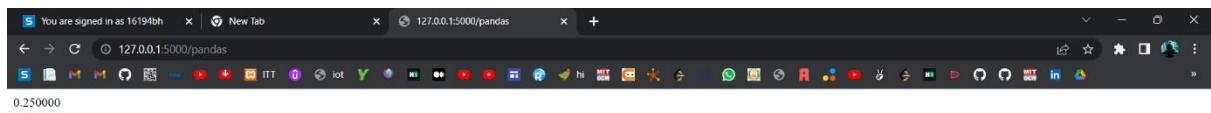
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For plot:



For Pandas:



For Pendulum:

