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:

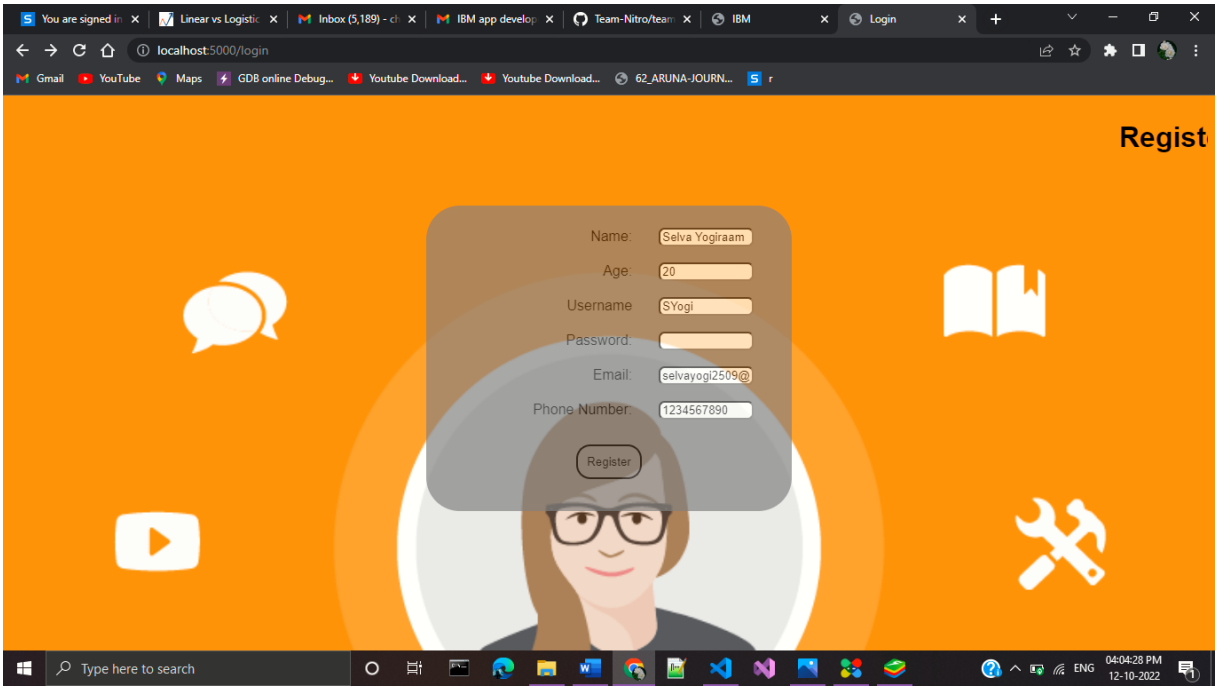
```
{% extends 'base.html' %}


{% 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 %}
```

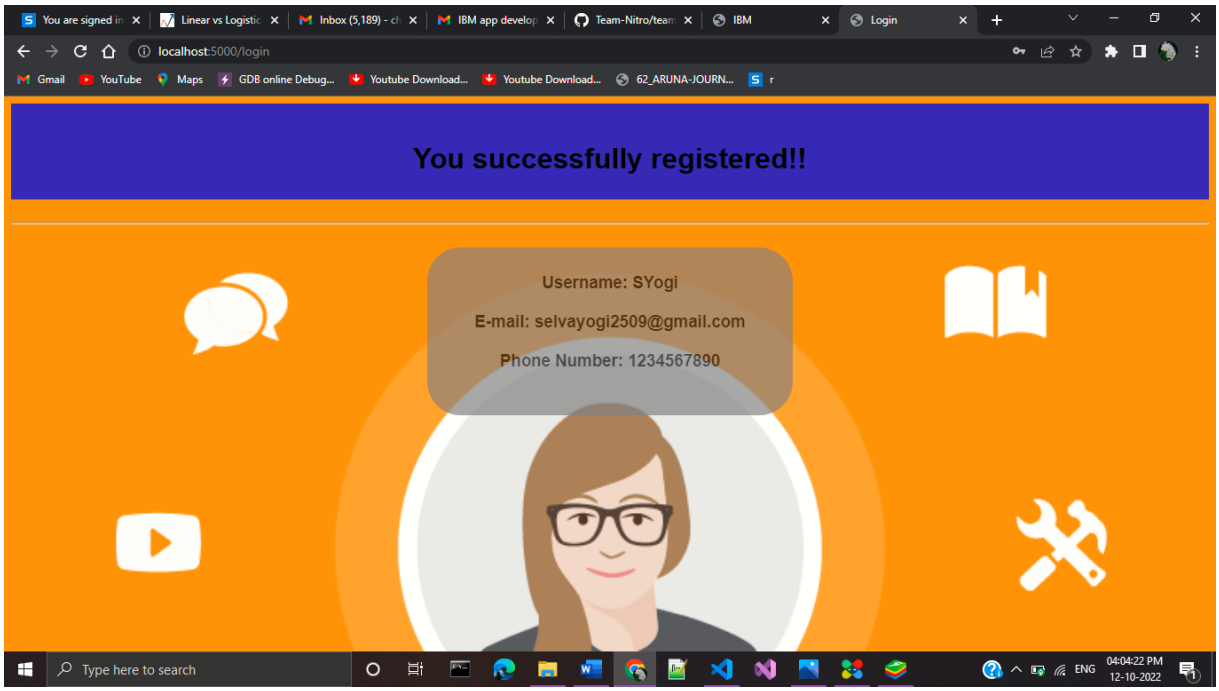
Output:

Before:

Entering Details:



After register:



Question-2:

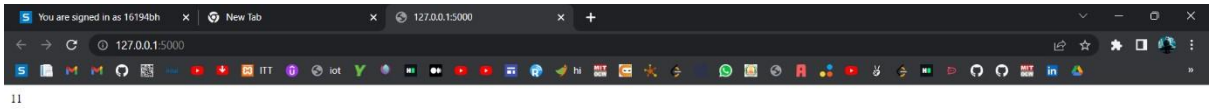
Develop a flask program which should contain at least 5 packages used from pypi.org.

Solution:

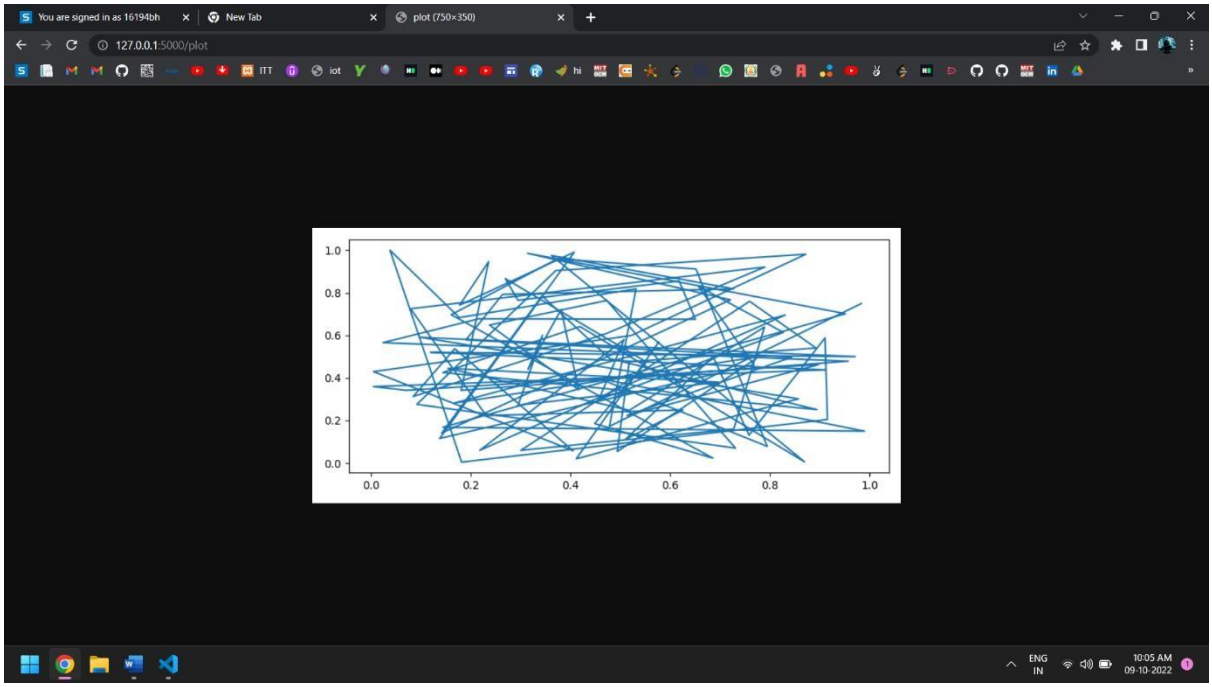
```
import numpy as np import
pandas as pd import
matplotlib.pyplot as plt
import pendulum from
flask import Flask
import io
from flask import Response
from matplotlib.backends.backend_agg import FigureCanvasAgg as FigureCanvas
from matplotlib.figure import Figure import seaborn as sns


app = Flask(__name__)
@app.route('/') def
check():
   x = 5    y=6
z=np.add(x,y)
return ' %d' %z
@app.route('/pl
ot') 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()
```

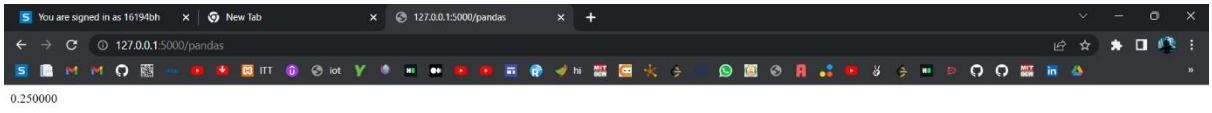
For np:



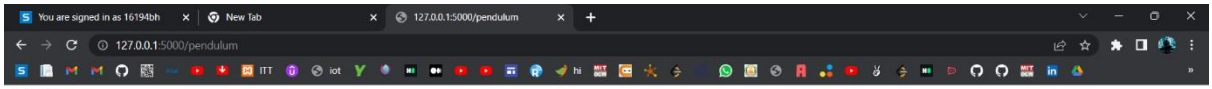
For plot:



For Pandas:



For Pendulum:



Asia/Calcutta