**Assignment -1**

| | |
|---|---|
| Assignment Date | 27 September 2022 |
| Student Name | Mr. Jetson Cyrus J |
| Student Roll Number | 9517201904060 |
| 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-color: white; */
    background: black;
    /* background-image: url('///img1.jpg'); */
    /* background-image: url(img1.jpg); */
}

.title{
    border-radius: 1rem;
    background: gray;
    padding: 5px;
}
```

```
.login{
    border-radius: 2rem;
    background: gray;
    padding: 10px;
    width: 70%;
}

.txtbox{
    background-color: gray;
    border-radius: 1rem;
}

.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 class="title">
    <center>
        <h1>
            Registration Page
        </h1>
    </center>
</div>

<br>
<br>
<center>
    <div class="login">
        <center>
            <form action="/login" class="formpad" method="POST">
                <b> Register Now!</b><br><br>
                Username: <input type="text" class="txtbox" name="username" id="username">
```

```
            <br><br>
            E-mail: <input type="text" class="txtbox" name="email" id="email">
            <br><br>
            Phone Number: <input type="text" class="txtbox" name="phn" id="phn">
            <br><br>
            <input type="submit" class="sub" value="Register">
            <!-- <button type="submit" class="sub">Register</button> -->
        </form>
    </center>
  </div>
</center>


{% endblock %}
```

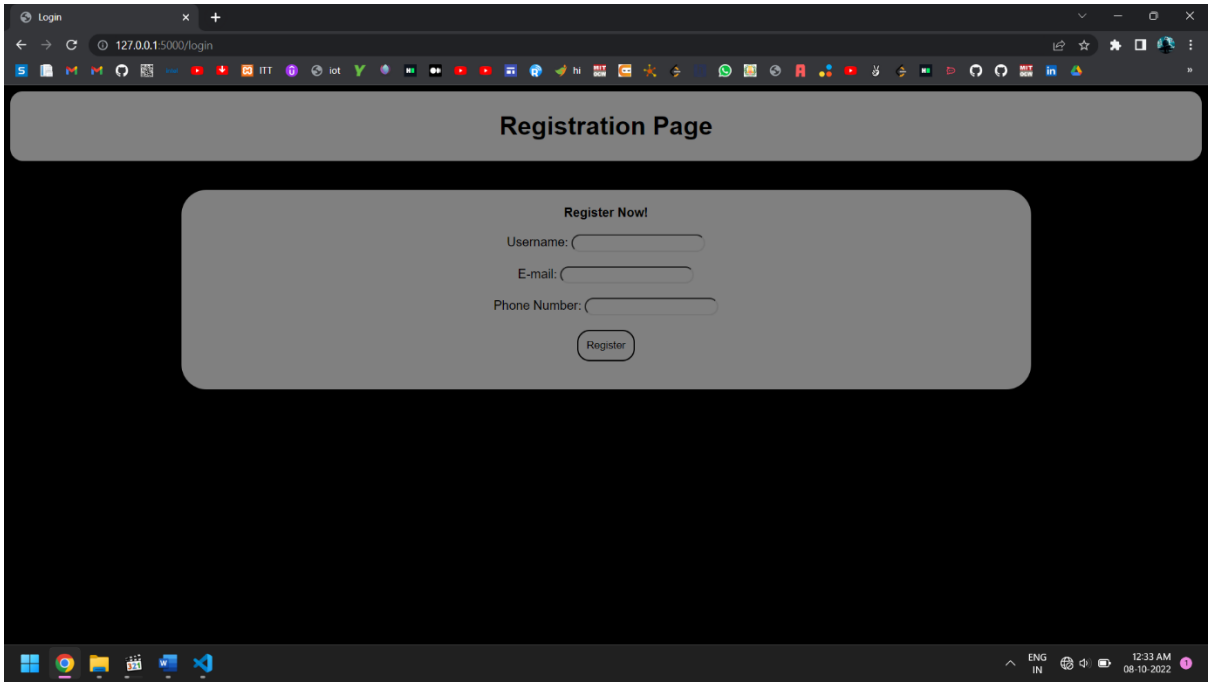
**afterlogin.html:**

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


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


{% block body %}


<div class="title">
  <center>
    <br>
    <h1>
      You successfully registered!!
```

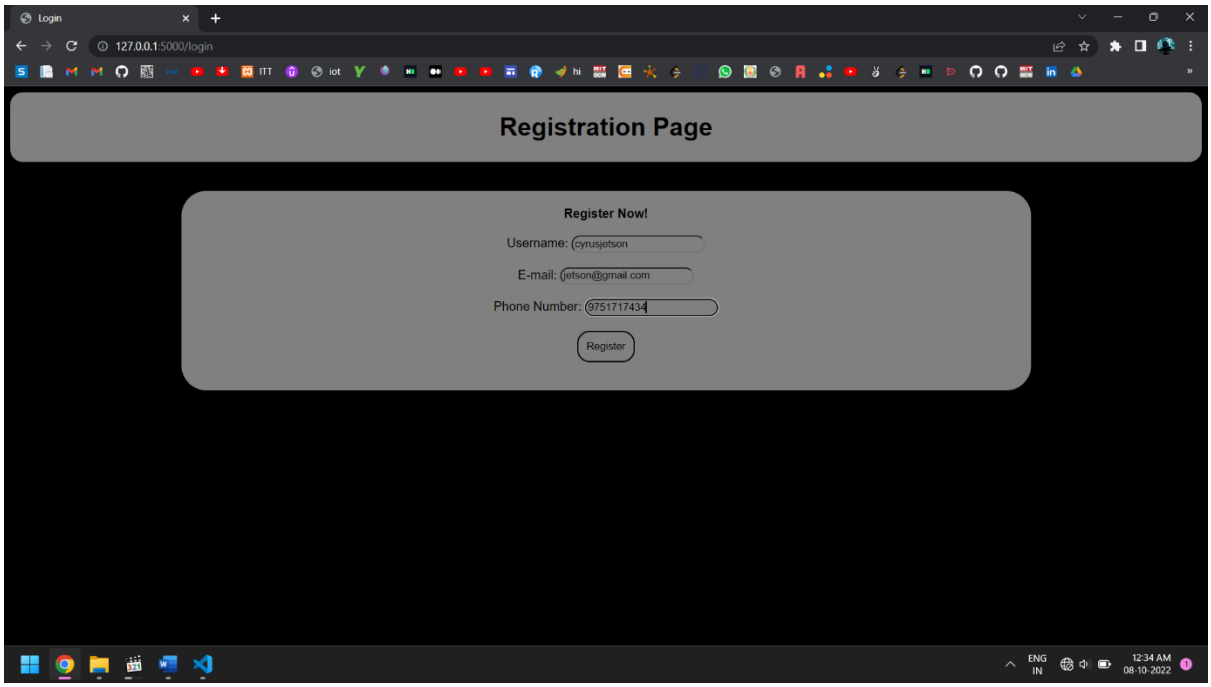
```
        </h1>
    </center>
</div>
<br>
<hr>
<br>
<center>
    <div class="login">
        <center>
            <h3>
                Username: {{ username }}
                <br><br>
                E-mail: {{ email}}
                <br><br>
                Phone Number: {{ phn }}
                <br><br>
            </h3>
        </center>
    </div>
</center>


{% endblock %}
```

## Output:

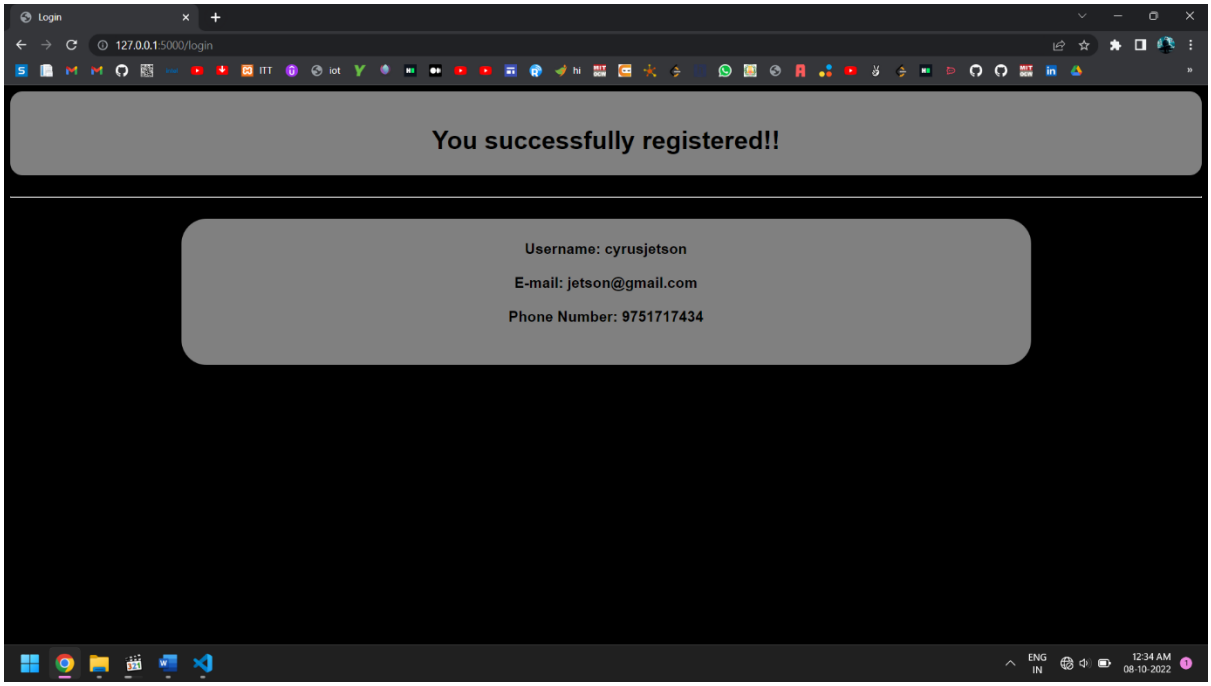
## Before:




## Entering Details:



**After register:**




**Question-2:**

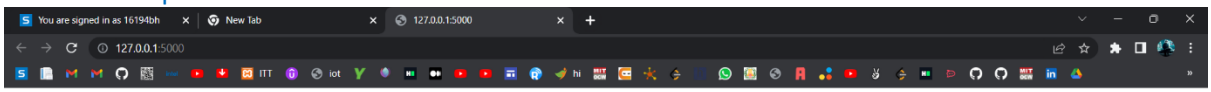
Develop a flask program which should contain at least 5 packages used from pypi.org.

**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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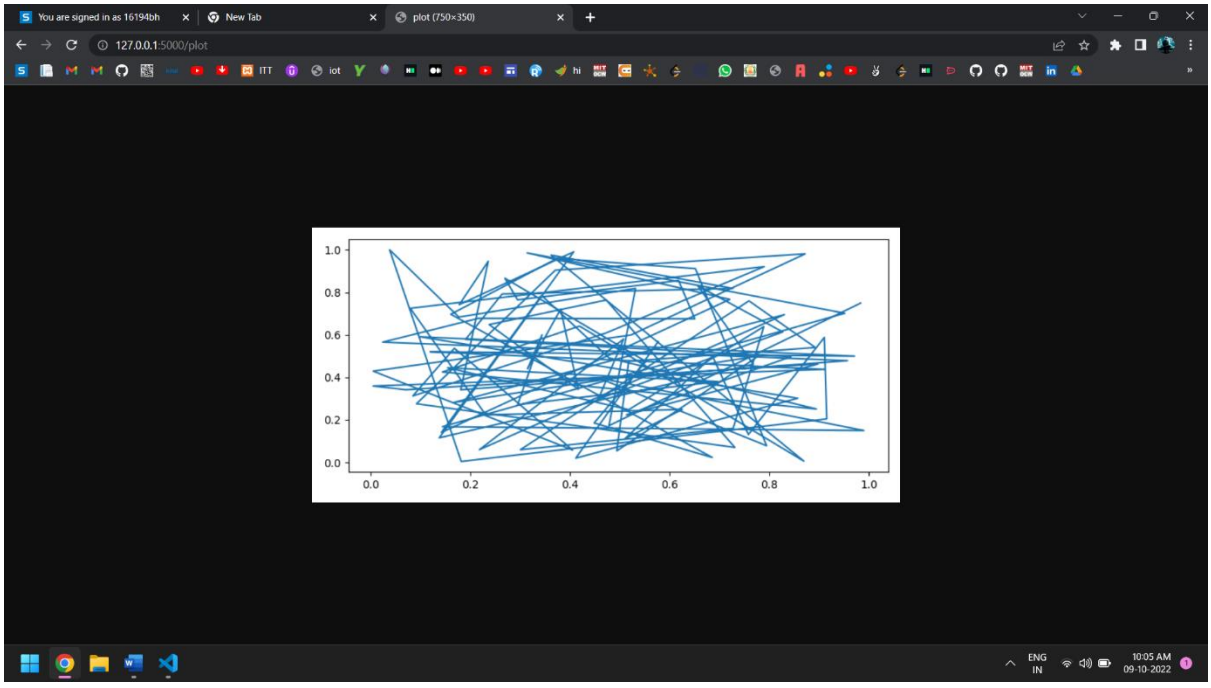
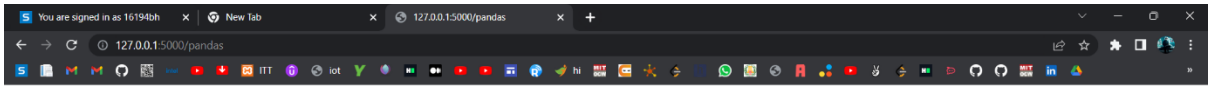
For plot:

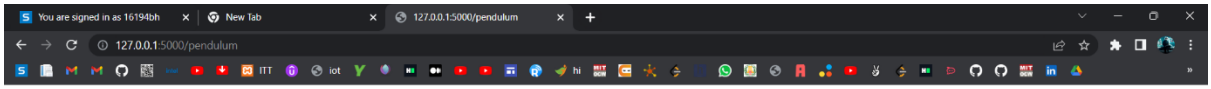


## For Pandas:




0.250000


## For Pendulum:

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