Assignment -1

Assignment Date	27 September 2022
Student Name	Mr.Mari Saravanan P
Student Roll Number	9517201904089
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,request


app = Flask(__name__)


@app.route("/")
@app.route("/login")
def login():
    return render_template("login.html")




@app.route("/Register",methods=["POST","GET"])


def Register() :
    if request.method == "POST" :
        name = request.form.get("name")
        uname = request.form.get("uname")
        email = request.form.get("email")
        ph = request.form.get("ph")


        return render_template("display.html",name = name ,uname = uname,email = email,phone = ph)
```

```python
if __name__ == '__main__':

    app.run(debug=True)
```

login.html:

```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>HelpLine</title>

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"/>

    <script src="static/Bootstrap/jquery-3.2.1.slim.min.js"></script>

    <script src="static/Bootstrap/popper.min.js"></script>

    <script src="static/Bootstrap/bootstrap.min.js"></script>

    <style>

      .image{

        height: 100%;

        width : 15rem;

      }

      .card-body{

        border-radius: 2rem;

      }


      body{

        font-family: cursive;

        background-color: aquamarine;

      }
```

```css
    .btn{
     padding-left: 0.5rem;
     padding-right: 0.5rem;
     font-size: 1.5rem;
     background-color:white;
    }
    .btn:hover{
     background-color: black;
     color: white;
     border-color: black;
    }
    h4{
     text-transform:uppercase;
     text-decoration: underline;
     margin-left: 5rem;
     color:black;
    }


  </style>
</head>
<body >
  <h2 class="mt-2 mb-0 text-center">HelpDesk Welcomes You</h3>


  <form action="/Register" class="d-flex align-items-center justify-content-center"  method="POST" autocomplete="off">


    <div class="card-body mt-5 col-md-5 bg-primary">
      <div class="row">
          <h4>Registration form</h4>
          <br/><br/>
      </div>
      <div class="row">
```

```html
<div class="img col-lg-4 ml-0">

    <img src="static/images.png" alt="" class="image">

</div>

<div class="register col-md-5 mx-auto">

  <div class="form-group">

    <label>Name : </label>

    <input type="text" class="form-control" name="name" placeholder="name" required>

  </div>

  <div class="form-group">

    <label>Username : </label>

    <input type="text" class="form-control" name="uname" placeholder="unique id" required>

  </div>

  <div class="form-group">

    <label>Email : </label>

    <input type="text" class="form-control" name="email" placeholder="type valid mail" required>

  </div>

  <div class="form-group">

    <label>Phone : </label>

    <input type="text" class="form-control" name="ph" placeholder="10 digit number" required>

  </div>

</div>

</div>

<div class="row">

  <div class="form-group mt-3 mx-auto">

    <input type="submit" class="btn" value = "Register">

  </div>

</div>

</div>
```

```
        </form>


    </body>
    </html>
```

display.html

```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">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"/>
    <script src="static/Bootstrap/jquery-3.2.1.slim.min.js"></script>
    <script src="static/Bootstrap/popper.min.js"></script>
    <script src="static/Bootstrap/bootstrap.min.js"></script>
    <title>Help Desk</title>


</head>
<body style="background-color: black;color: aliceblue;">
    <div class="row d-flex align-items-center justify-content-center">
    <div class="card col-md-5 mt-5" style="background-color:black;">
        <h3 class="page-header text-center" style="font-family: cursive;font-size:
2rem;">Dashboard</h3>
        <div class="card-body mt-2">
            <table class="table table-bordered">
                <tr>
                    <th>Name</th>
                    <td>{{name}}</td>
                </tr>
                <tr>
                    <th>UserName</th>
```

```html
      <td>{{uname}}</td>
    </tr>
    <tr>
      <th>Email</th>
      <td>{{email}}</td>
    </tr>
    <tr>
      <th>Phone number</th>
      <td>{{phone}}</td>
    </tr>
  </table>
</div>


</div>
</div>
<div class="row justify-content-center">
  <form action="/login">
    <input type="submit" class="btn btn-primary" value="back">
  </form>
</div>
</body>
</html>
```

Output:

Register page:

After Registered successfully:

Question-2:

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

Solution:

```python
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()
```
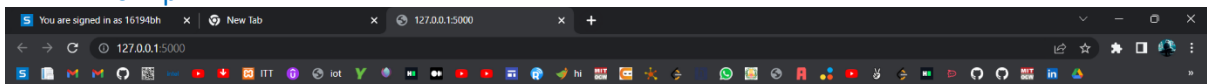
```python
    fig,ax=plt.subplots(1,1)
    sns.lineplot(x,y)
    img = io.BytesIO()
    FigureCanvas(fig).print_png(img)
    return Response(img.getvalue(),mimetype='img/png')
@app.route('/pendulum')
def pendulum1():
    local = pendulum.local(2020, 11,27)
    zone=local.timezone.name
    return '%s' %zone
if __name__ == '__main__':
    app.run()
```
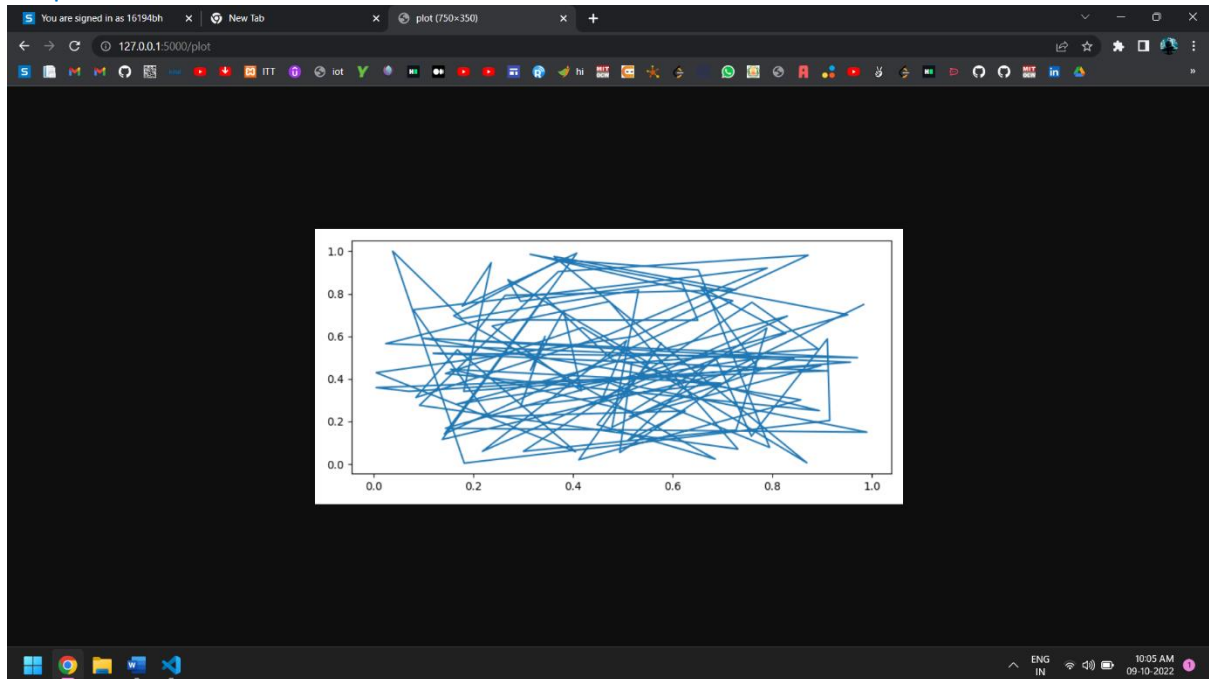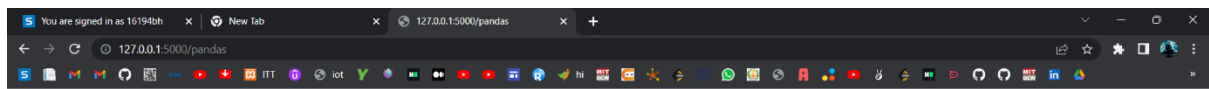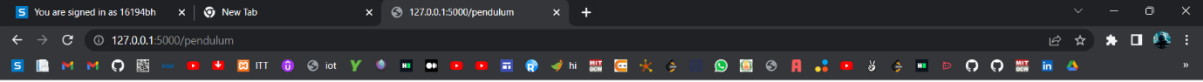
For np:

For plot:

For Pandas:

0.250000

For Pendulum:

Asia/Calcutta