

Assignment -1
Python Programming

Assignment Date	30 September 2022
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Student Roll Number	9517201904108
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.

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('dashboard.html', username = username, email= email, phn = phn)
    else:
        print("in else of login")
        return render_template('index.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>
```

Index.html

```
{% extends 'base.html' %}
{% block head %}
<title>Login</title>
{% endblock %}
{% block body %}
```



```
{% endblock %}
```

Main.css

```
@keyframes color {
  0% { background: #33CCCC; }
  20% { background: #33CC36; }
  40% { background: #B8CC33; }
  60% { background: #FCCA00; }
  80% { background: #33CC36; }
  100% { background: #33CCCC; }
}

body{
/* font-family: Helvetica;*/
/* background-color: white; */
/* background: black;*/
/* background-image: url('///img1.jpg'); */
/* background-image: url(img1.jpg); */
background: #33CCCC; /* Fallback */
animation: color 9s infinite linear;
text-align: center;
padding: 2em;
}

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

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

.txtbox{
background-color: white;
border-radius: 1rem;
padding:20px;
}

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

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

button:hover{
background-color: rgb(0, 0, 0);
color: white;
}

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

Output:

Registration Page

!!!PLEASE REGISTER YOUR VALID DETAILS!!!

USERNAME

EMAIL

CONTACT

After login:

You successfully registered!!

Username: ravi

E-mail: chandranravi027@gmail.com

Phone Number: 9474217667

Question-2:

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

```
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()

```

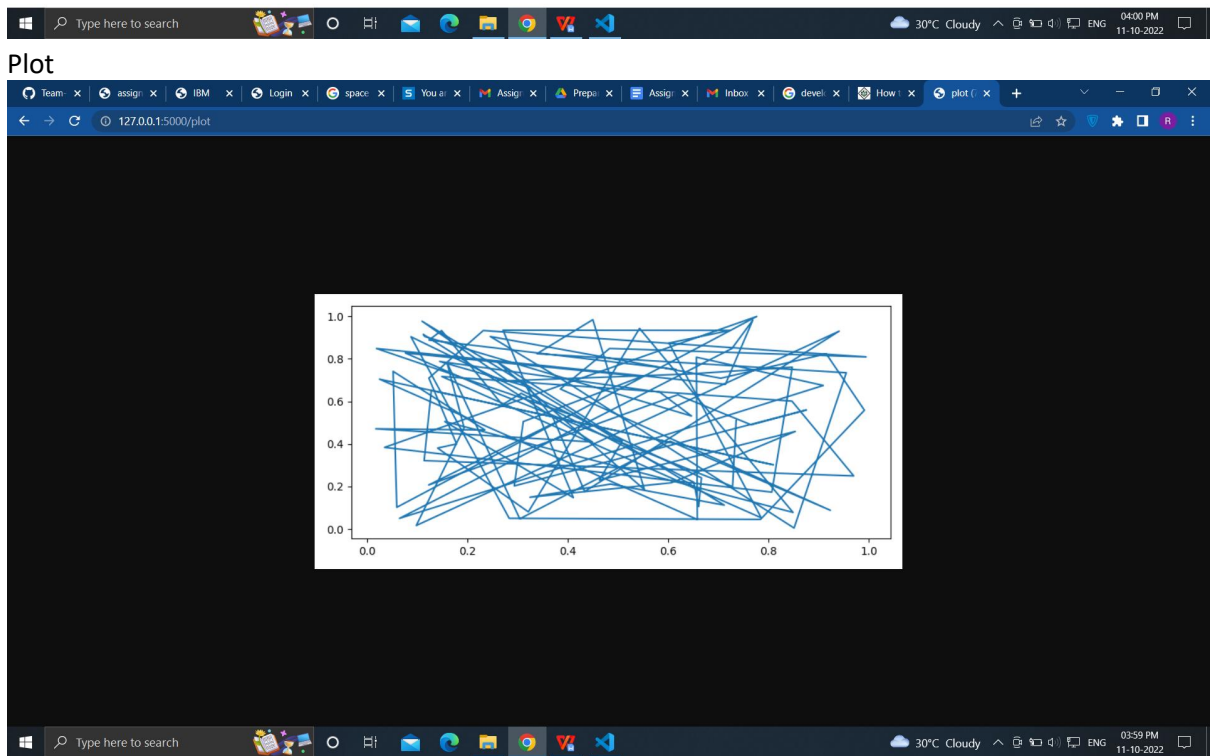
Output:

pandas

Team x assign x IBM x Login x space x You a x Assign x Prep x Assign x Inbox x devel x How x 127.0 x + - x

127.0.0.1:5000/pandas

0.250000



Pendulum

