

ASSIGNMENT 1

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Question-1:

Create a registration page in html with username, email, and phone number and by using POST method display it in the next html page.

index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
initial scale=1">
    <title>Registration</title>
    <link rel="stylesheet" href="{{
url_for('static',filename='styles/index.css') }}">
  </head>
  <body>
    <center>
      <br><br>
      <h1>Registration</h1><br>
      <form action="{{ url_for('result') }}" method="post">
        <table>
          <tr>
            <td>
              <label>Name</label>
            </td>
            <td>
              : <input type="text" class="name-input
name mb-3" id="name" name="name">
            </td>
          </tr>
          <tr>
            <td>
              <label>Email</label>
            </td>
```

```

            <td>
                : <input type="email" class="name
input name mb-3" id="email" name="email">
            </td>
        </tr>
        <tr>
            <td>
                <label>Mobile</label>
            </td>
            <td>
                : <input type="number" class="name
input name mb-3" id="mobile" name="mobile">
            </td>
        </tr>
    </table>
    <br><br>
    <input class="btn btn-outline-primary"
type="submit" value="Submit">
</form>
</center>
</body>
</html>

```

result.html

```

<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width,
initial scale=1">
        <title>Profile</title>
        <link rel="stylesheet" href="{{
url_for('static',filename='styles/index.css') }}">
    </head>
    <body>
        <center>
            <br><br>
            <h1>Welcome !!!</h1>
            <br>
            <form action="{{ url_for('result') }}"
method="post"> <table>
                <tr>
                    <h3>Name : {{ name }}<br></h3>
                </tr>
                <tr>

```

```

        <h3>Email : {{ email }}<br></h3>
    </tr>
    <tr>
        <h3>Mobile : {{ mobile }}<br></h3>
    </tr>
</table>
<br><br>
</form>
</center>
</body>
</html>

```

app.py

```

from flask import *;
import os

app = Flask(__name__)

@app.route('/', methods=['GET', 'POST'])
def home():
    if request.method == 'POST':
        name = request.form["name"]
        email= request.form["email"]
        mobile = request.form["mobile"]
        return redirect(url_for('result', name=name, email=email,
mobile=mobile))
    return render_template('index.html')

@app.route("/result", methods=['GET', 'POST'])
def result():
    name = request.form.get('name')
    email= request.form.get('email')
    mobile = request.form.get('mobile')
    return render_template('result.html', name=name, email=email,
mobile=mobile)

if __name__ == "__main__":
    app.run(debug=True, port=2807)

```

OUTPUT:

REGISTRATION

Name :

Email :

Mobile :

WELCOME !!!

Name : abc

Email : abc@gmail.com

Mobile : 9876543210

Question-2:

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

#1. *NUMPY*

import numpy as np

```
arr = np.array([[-1, 2, 0, 4],  
               [4, -0.5, 6, 0],
```

```
[2.6, 0, 7, 8],
[3, -7, 4, 2.0]])
print("Initial Array: ")
print(arr)
```

```
Initial Array:
[[-1.  2.  0.  4. ]
 [ 4. -0.5 6.  0. ]
 [ 2.6 0.  7.  8. ]
 [ 3. -7.  4.  2. ]]
```

#2. PANDAS

```
import pandas as pd
```

```
s1 = pd.Series([1, 3, 4, 5, 6, 2, 9])
```

```
s2 = pd.Series([1.1, 3.5, 4.7, 5.8, 2.9, 9.3])
```

```
s3 = pd.Series(['a', 'b', 'c', 'd', 'e'])
```

```
Data ={'first':s1, 'second':s2, 'third':s3}
```

```
df = pd.read_csv('/content/sample_data/ds_salaries.csv') print(df)
```

```
Unnamed: 0  work_year experience_level employment_type \ 0 0 2020 MI FT 1 1
2020 SE FT 2 2 2020 SE FT 3 3 2020 MI FT 4 4 2020 SE FT ... .. 602
602 2022 SE FT 603 603 2022 SE FT 604 604 2022 SE FT 605 605 2022 SE FT
606 606 2022 MI FT
```

```
job_title salary salary_currency salary_in_usd \
0 Data Scientist 70000 EUR 79833 1 Machine Learning Scientist 260000 USD 260000 2 Big
```

```
Data Engineer 85000 GBP 109024
```

```
3 Product Data Analyst 20000 USD 20000 4 Machine Learning Engineer 150000 USD 150000
```

```
... .. 602 Data Engineer 154000 USD 154000 603 Data Engineer 126000 USD 126000
```

```
604 Data Analyst 129000 USD 129000 605 Data Analyst 150000 USD 150000 606 AI Scientist
```

```
200000 USD 200000
```

```
employee_residence remote_ratio company_location company_size 0 DE 0 DE L 1 JP 0
JP S 2 GB 50 GB M 3 HN 0 HN S 4 US 50 US L ... .. 602 US 100 US M 603 US
100 US M 604 US 0 US M 605 US 100 US M 606 IN 100 US L
```

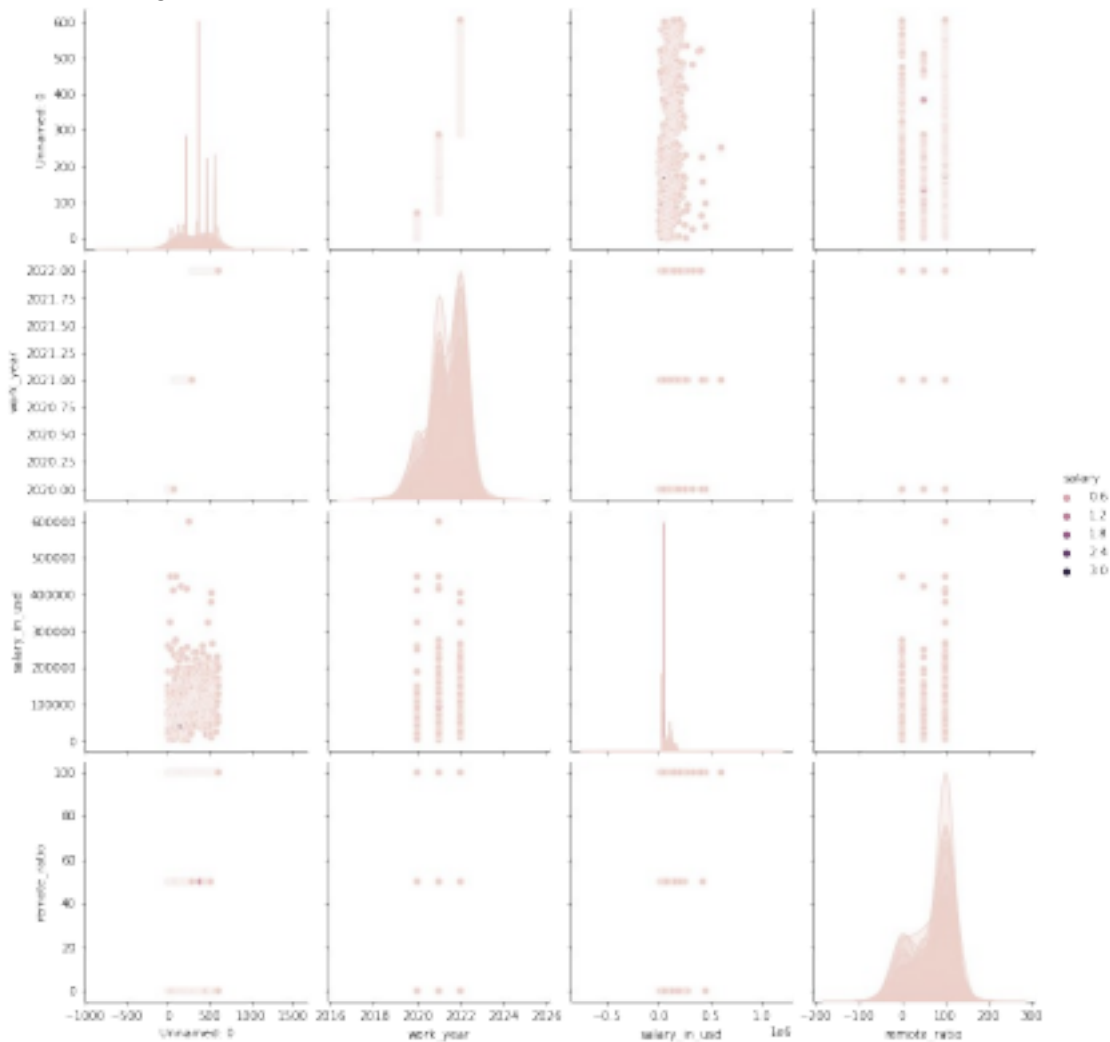
```
[607 rows x 12 columns]
```

#3. SEABORN

```
import seaborn as sns
```

```
sns.pairplot(df,hue="salary",height=3)
```

```
<seaborn.axisgrid.PairGrid at 0x7f32024d5650>
```



#4. TENSORFLOW

```
import tensorflow as tf
```

```
mnist = tf.keras.datasets.mnist
```

```
(x_train, y_train), (x_test, y_test) = mnist.load_data() x_train, x_test =  
x_train / 255.0, x_test / 255.0
```

```
model = tf.keras.models.Sequential([  
    tf.keras.layers.Flatten(input_shape=(28, 28)),  
    tf.keras.layers.Dense(128, activation='relu'),  
    tf.keras.layers.Dropout(0.2),  
    tf.keras.layers.Dense(10)  
])
```

#5. *PYTZ*

```
from pytz import timezone
from datetime import datetime
```

```
format = "%Y-%m-%d %H:%M:%S %Z%z"
now_utc = datetime.now(timezone('UTC'))
print(now_utc.strftime(format))
```

```
now_asia = now_utc.astimezone(timezone('Asia/Kolkata'))
print(now_asia.strftime(format))
```

```
2022-10-07 16:36:09 UTC+0000
2022-10-07 22:06:09 IST+0530
```