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

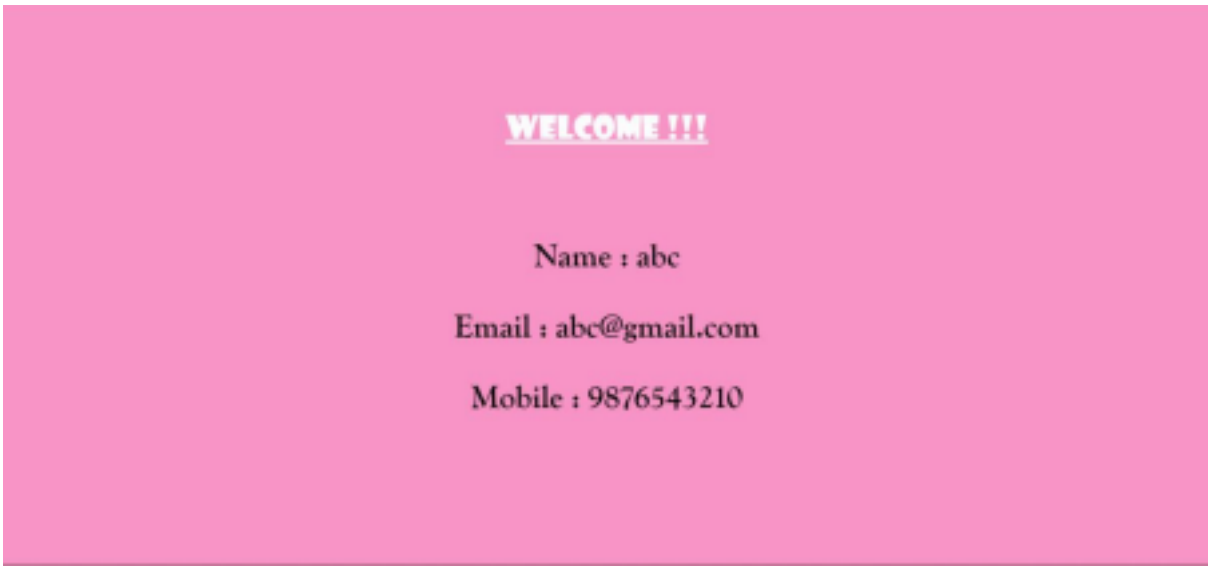
```
<!DOCTYPE html>
<html>
      <head>
            <meta charset="utf-8">
            <meta name="viewport" content="width=device-width,
initial scale=1">
            <title>Profile</title>
            <link rel="stylesheet" href="{{
url_for('static',filename='styles/index.css') }}">
      </head>
      <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:



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. ]]
```

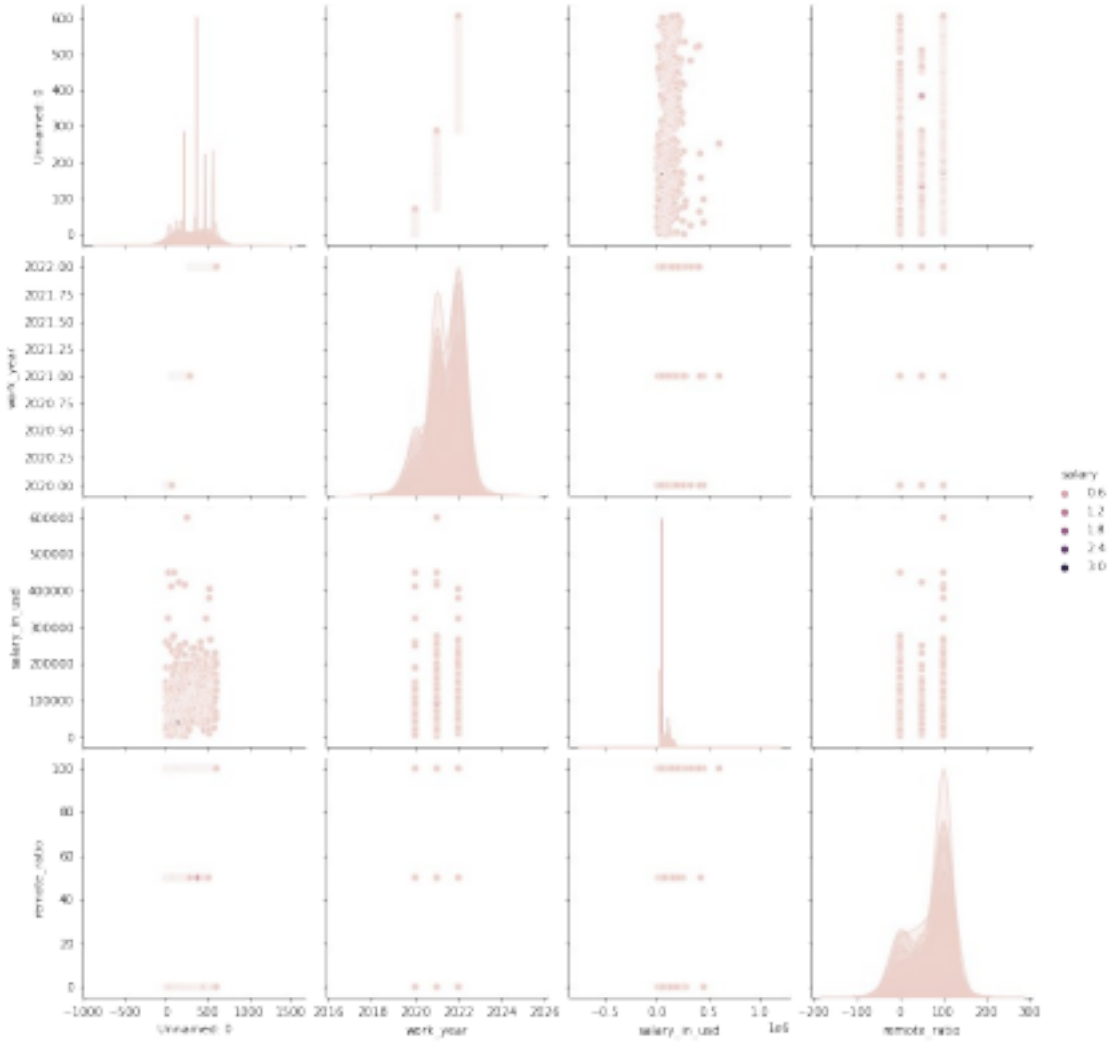
```
#2. PANDAS
import pandas as pd

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
```