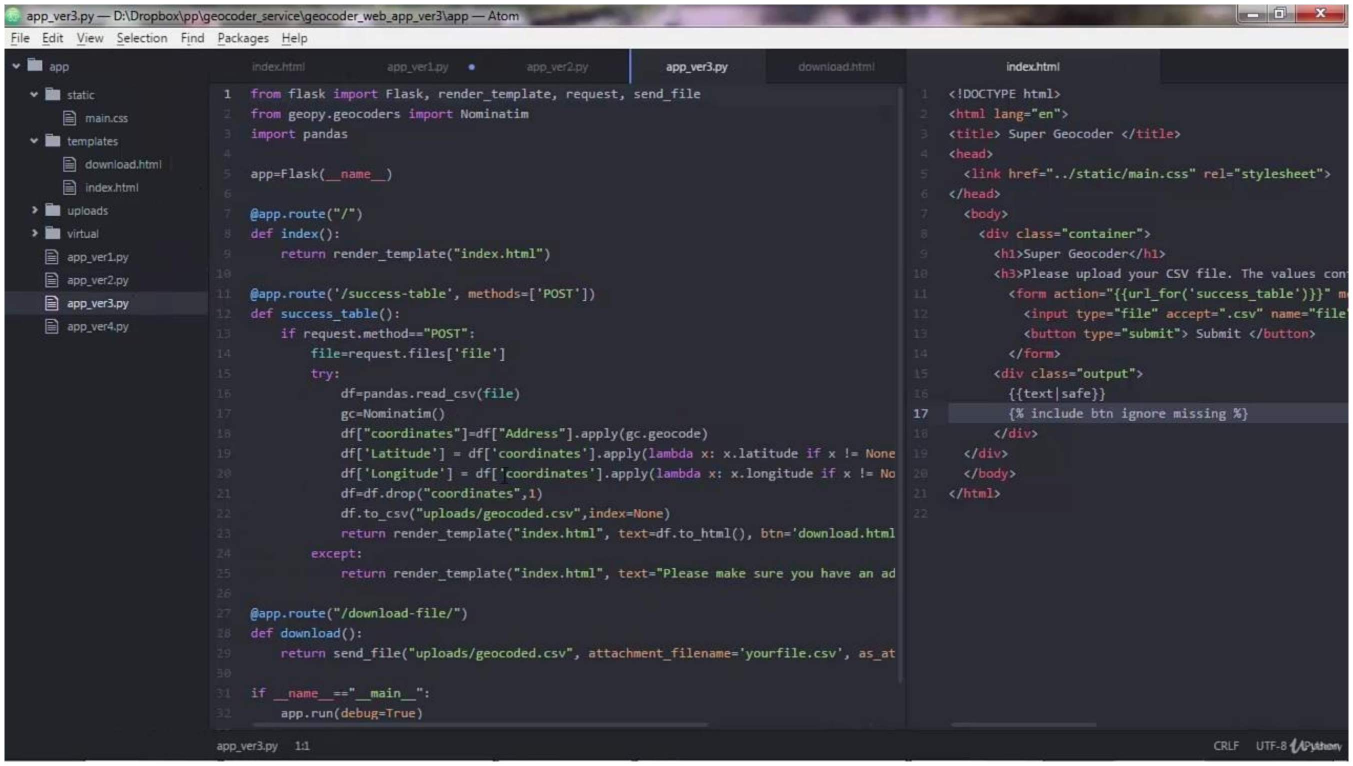
Date:	**06/06/2020**	**Name:**	**Soundarya NA**
Course:	**Udemy**	**USN:**	**4AL16EC077**
Topic:	**Python**	**Semester & Section:**	**8th B**

AFTERNOON SESSION DETAILS

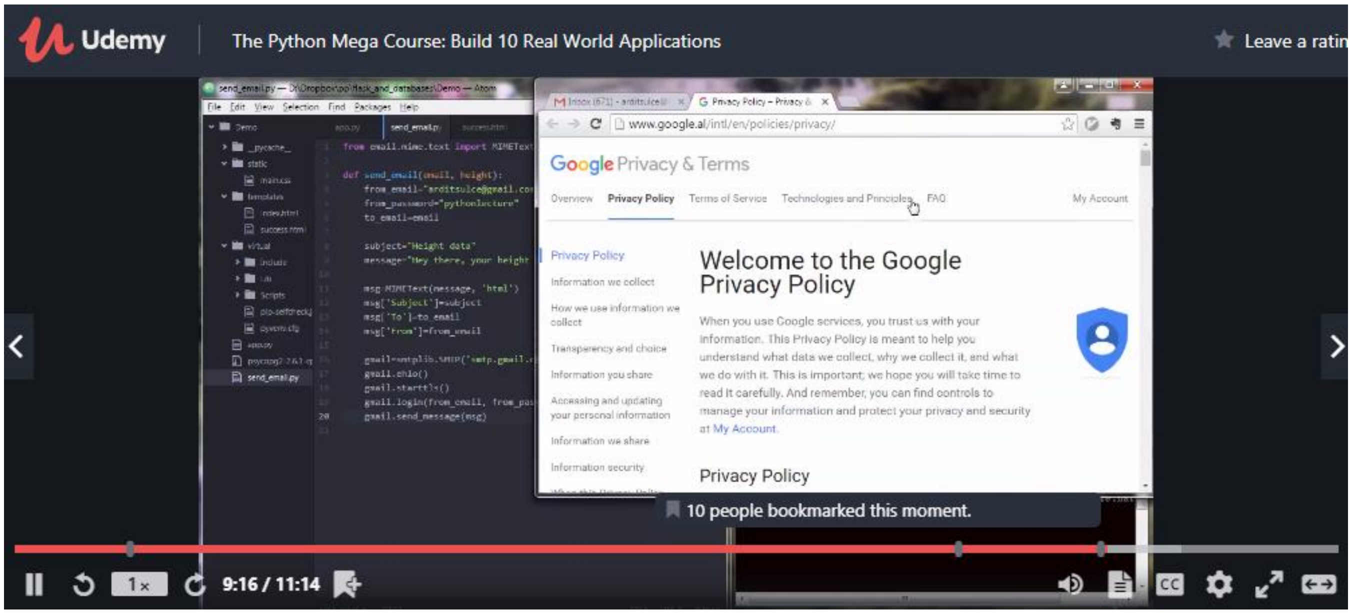


app_ver3.py

```python
from flask import Flask, render_template, request, send_file
from geopy.geocoders import Nominatim
import pandas

app=Flask(__name__)

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

@app.route('/success-table', methods=['POST'])
def success_table():
    if request.method=="POST":
        file=request.files['file']
        try:
            df=pandas.read_csv(file)
            gc=Nominatim()
            df["coordinates"]=df["Address"].apply(gc.geocode)
            df['Latitude'] = df['coordinates'].apply(lambda x: x.latitude if x != None
            df['Longitude'] = df['coordinates'].apply(lambda x: x.longitude if x != No
            df=df.drop("coordinates",1)
            df.to_csv("uploads/geocoded.csv",index=None)
            return render_template("index.html", text=df.to_html(), btn='download.html
        except:
            return render_template("index.html", text="Please make sure you have an ad

@app.route("/download-file/")
def download():
    return send_file("uploads/geocoded.csv", attachment_filename='yourfile.csv', as_at

if __name__=="__main__":
    app.run(debug=True)
```

index.html

```html
<!DOCTYPE html>
<html lang="en">
<title> Super Geocoder </title>
<head>
  <link href="../static/main.css" rel="stylesheet">
</head>
  <body>
    <div class="container">
      <h1>Super Geocoder</h1>
      <h3>Please upload your CSV file. The values con
        <form action="{{url_for('success_table')}}" m
          <input type="file" accept=".csv" name="file
          <button type="submit"> Submit </button>
        </form>
      <div class="output">
        {{text|safe}}
        {% include btn ignore missing %}
      </div>
    </div>
  </body>
</html>
```



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send_email.py

```python
from email.mime.text import MIMEText

def send_email(email, height):
    from_email="arditsulce@gmail.co
    from_password="pythonlecture"
    to_email=email

    subject="Height data"
    message="Hey there, your height

    msg=MIMEText(message, 'html')
    msg['Subject']=subject
    msg['To']=to_email
    msg['From']=from_email

    gmail=smtplib.SMTP('smtp.gmail.
    gmail.ehlo()
    gmail.starttls()
    gmail.login(from_email, from_pa
    gmail.send_message(msg)
```

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Report:

The GeocoderRequest object literal contains the following fields:

```
{
 address: string,
 location: LatLng,
 placeId: string,
 bounds: LatLngBounds,
 componentRestrictions: GeocoderComponentRestrictions,
 region: string
}
```

Required parameters: You must supply one, and only one, of the following fields:

• address — The address which you want to geocode.

or

location — The LatLng (or LatLngLiteral) for which you wish to obtain the closest, human-readable address. The geocoder performs a reverse geocode. See Reverse Geocoding for more information.

or

placeId — The place ID of the place for which you wish to obtain the closest, human-readable address. See more about retrieving an address for a place ID.

Optional parameters:

• bounds — The LatLngBounds within which to bias geocode results more prominently. The bounds parameter will only influence, not fully restrict, results from the geocoder. See more information about viewport biasing below.

• componentRestrictions — Used to restrict results to a specific area. See more information about component filtering below.

• region — The region code, specified as a IANA language region subtag. In most cases, these tags map directly to familiar ccTLD ("top-level domain") two-character values. The region parameter will only influence, not fully restrict, results from the geocoder. See more information about region code biasing below.

The GeocoderResult object represents a single geocoding result. A geocode request may return multiple result objects:

results[]: {

```
 types[]: string,
 formatted_address: string,
 address_components[]: {
   short_name: string,
   long_name: string,
   postcode_localities[]: string,
   types[]: string
 },
 partial_match: boolean,
 place_id: string,
 postcode_localities[]: string,
 geometry: {
   location: LatLng,
   location_type: GeocoderLocationType
   viewport: LatLngBounds,
   bounds: LatLngBounds
 }
}
```

Code:

```
<html>
  <head>
  <meta name="viewport" content="initial-scale=1.0, width=device-width" />
  <script     src="https://js.api.here.com/v3/3.1/mapsjs-core.js"type="text/javascript"     charset="utf-
8"></script>
  <script    src="https://js.api.here.com/v3/3.1/mapsjs-service.js"type="text/javascript"    charset="utf-
8"></script>
  </head>
  <body style='margin: 0'>
  <div style="width: 100vw; height: 100vh" id="mapContainer"></div>
  <script>
```

```
   // Initialize the platform object:
   var platform = new H.service.Platform({
   'apikey': '{{apikey}}'
   });

          const lng = {{longitude}};
          const lat = {{latitude}};

// Obtain the default map types from the platform object
          var defaultLayers = platform.createDefaultLayers();

// Instantiate (and display) a map object:
var map = new H.Map(
   document.getElementById('mapContainer'),
   defaultLayers.vector.normal.map,
   {
     zoom: 10,
     center: { lat: lat, lng: lng }
   });

          const marker = new H.map.Marker({lat: lat, lng: lng});
          map.addObject(marker);
  </script>
  </body>
</html>
```