DAILY ASSESSMENT FORMAT

Date:	6th May 2020	Name:	Poojary Sushant
Course:	PYTHON	USN:	4AL18EC400
Topic:	Geocoder	Semester & Section:	6th & 'B,
GitHub Repository :	Sushant7026		

AFTERNOON SESSION DETAILS
Image of session
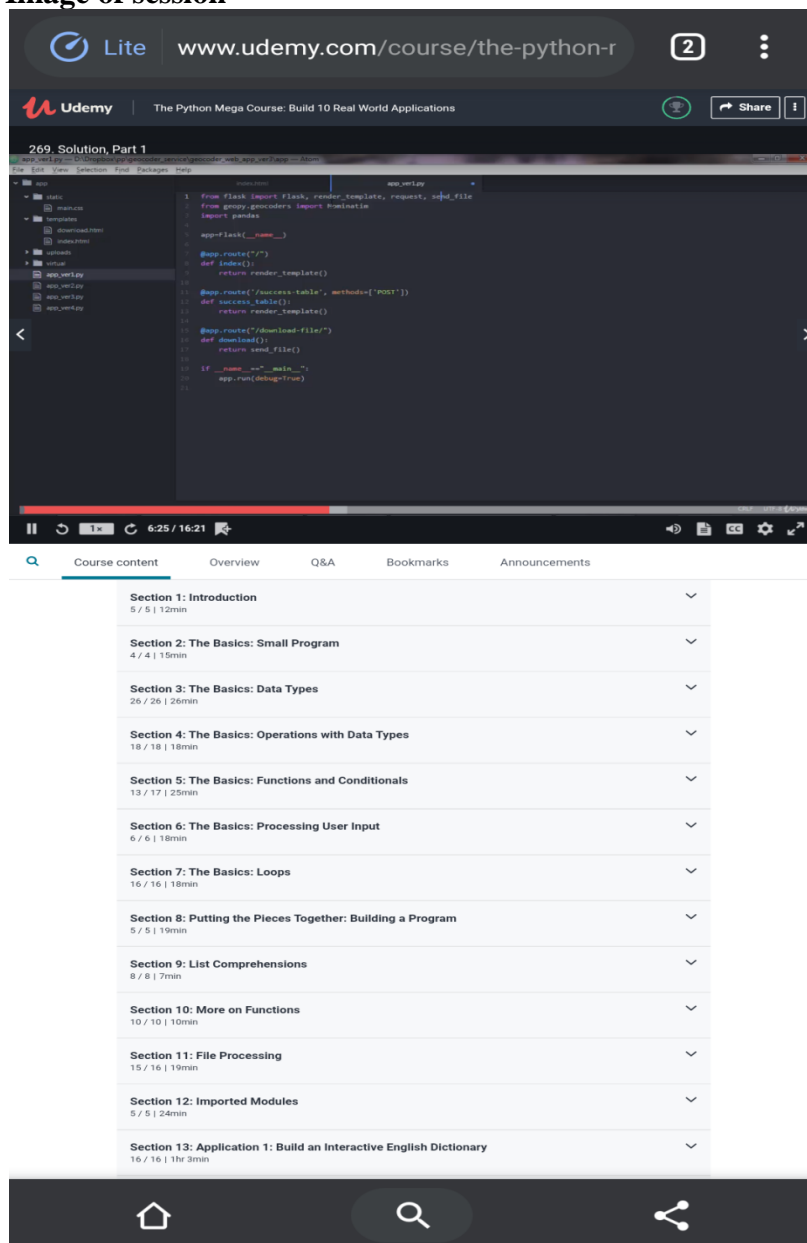
Report –

app.py

```python
from flask import Flask, render_template, request, send_file
from geopy.geocoders import ArcGIS
import pandas
import datetime
app=Flask(__name__)
@app.route("/")
def index():
    return render_template("index.html")
 @app.route('/success-table', methods=['POST'])
def success_table():
    global filename
    if request.method=="POST":
        file=request.files['file']
        try:
            df=pandas.read_csv(file)
            gc=ArcGIS(scheme='http')
            df["coordinates"]=df["Address"].apply(gc.geocode)
            df['Latitude'] = df['coordinates'].apply(lambda x: x.latitude if x != None else None)
            df['Longitude'] = df['coordinates'].apply(lambda x: x.longitude if x != None else None)
            df=df.drop("coordinates",1)
            filename=datetime.datetime.now().strftime("sample_files/%Y-%m-%d-%H-%M-%S-%f"+".csv")
            df.to_csv(filename,index=None)
            return render_template("index.html", text=df.to_html(), btn='download.html')
        except Exception as e:
            return render_template("index.html", text=str(e))

@app.route("/download-file/")
def download():
    return send_file(filename, attachment_filename='yourfile.csv', as_attachment=True)

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

download.html

```html
<!DOCTYPE html>
<html lang="en">
<div class="download">
<a href={{url_for('download')}} target="blank"> <button class="btn">  Download </button></a>
</div>
</html>
```

```
index.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 containing addresses should be in a column named
<em>address</em> or <em>Address</em></h3>
     <form action="{{url_for('success_table')}}" method="POST" enctype="multipart/form-data">
      <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>
```