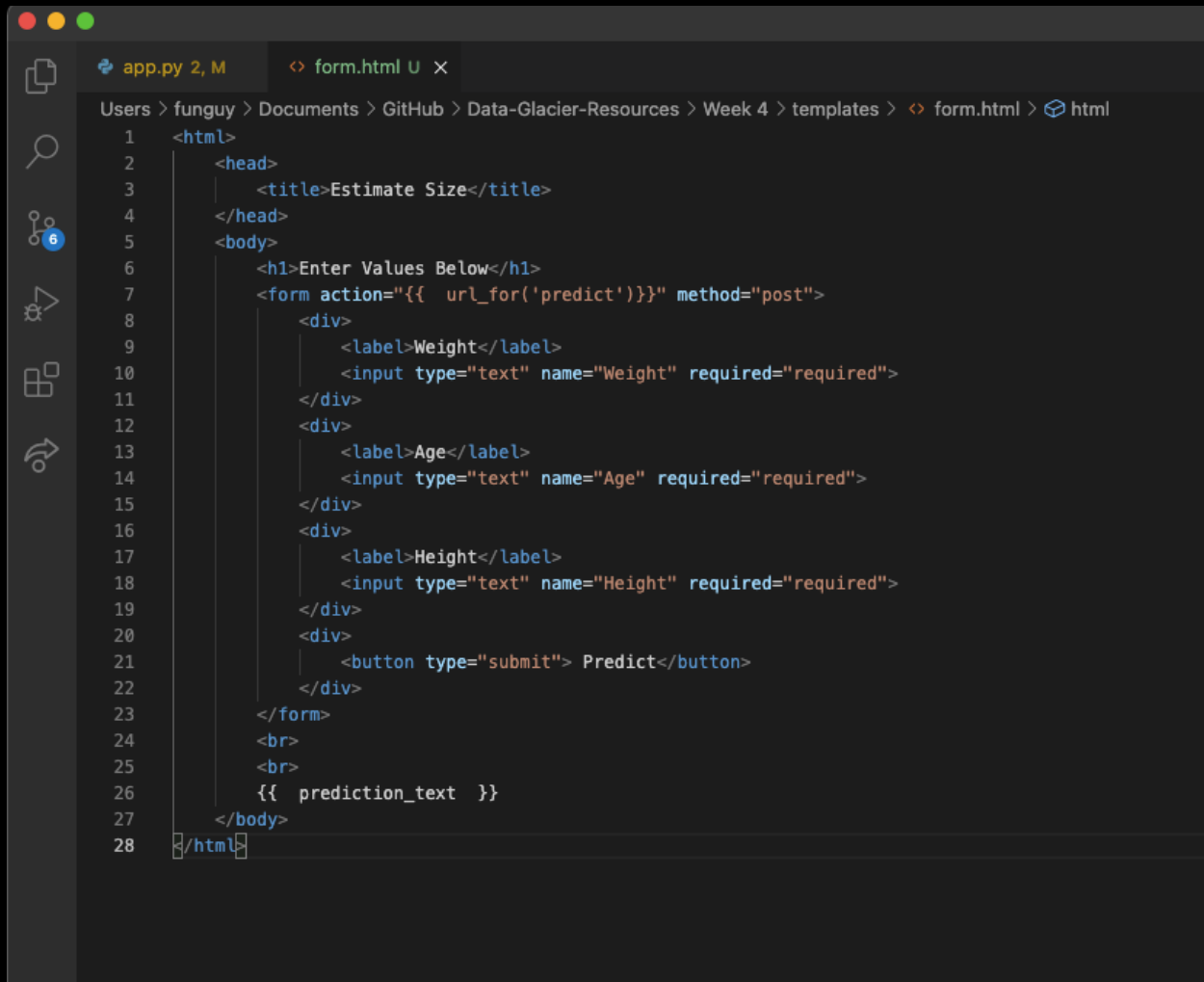


Name: Arhum Ahmad

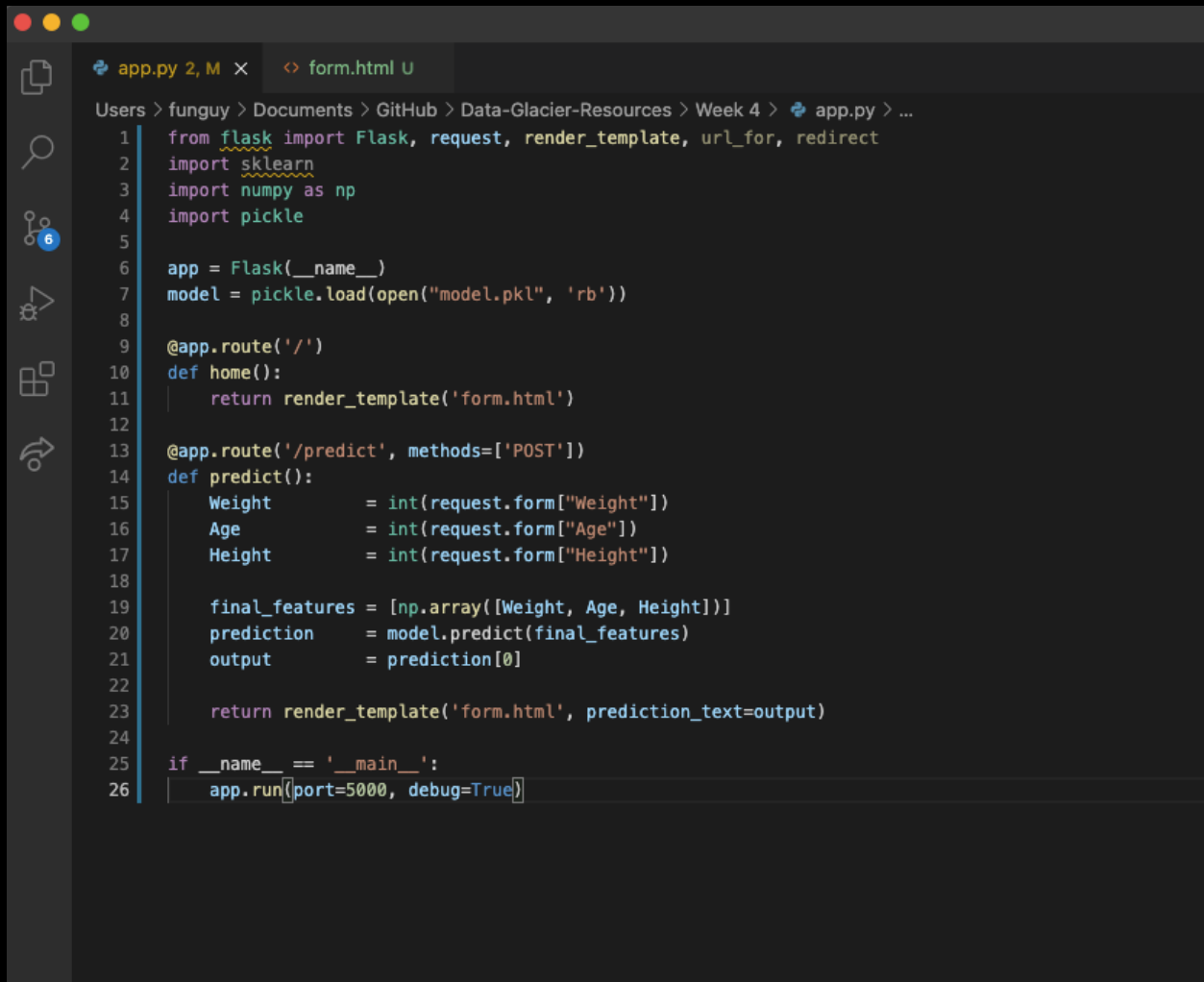
Submitted to Data Glacier on August 10, 2021

Step 1: create the html file



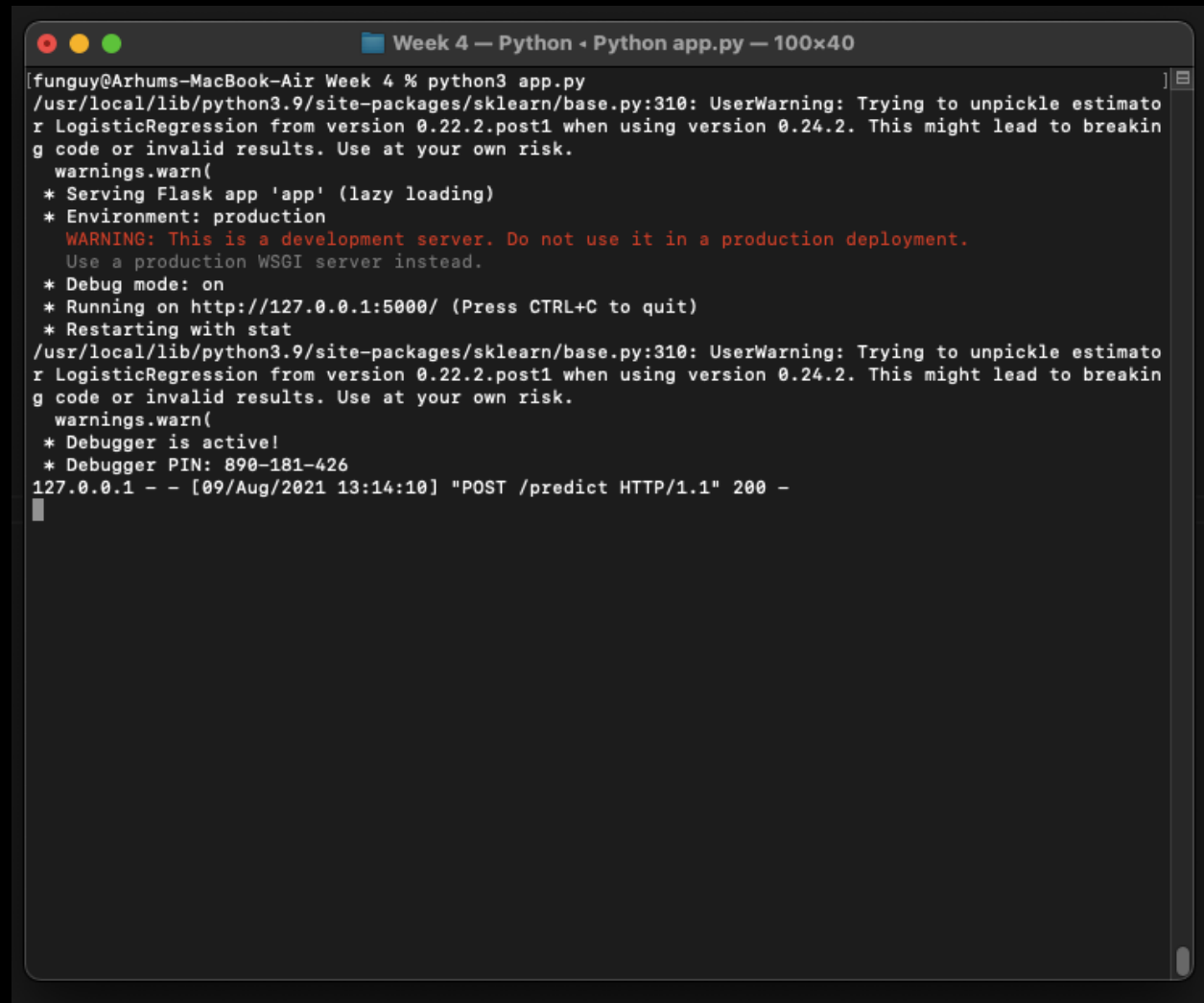
```
1 <html>
2   <head>
3     <title>Estimate Size</title>
4   </head>
5   <body>
6     <h1>Enter Values Below</h1>
7     <form action="{{ url_for('predict')}}" method="post">
8       <div>
9         <label>Weight</label>
10        <input type="text" name="Weight" required="required">
11      </div>
12      <div>
13        <label>Age</label>
14        <input type="text" name="Age" required="required">
15      </div>
16      <div>
17        <label>Height</label>
18        <input type="text" name="Height" required="required">
19      </div>
20      <div>
21        <button type="submit"> Predict</button>
22      </div>
23    </form>
24    <br>
25    <br>
26    {{ prediction_text }}
27  </body>
28</html>
```

## Step 2: write app.py



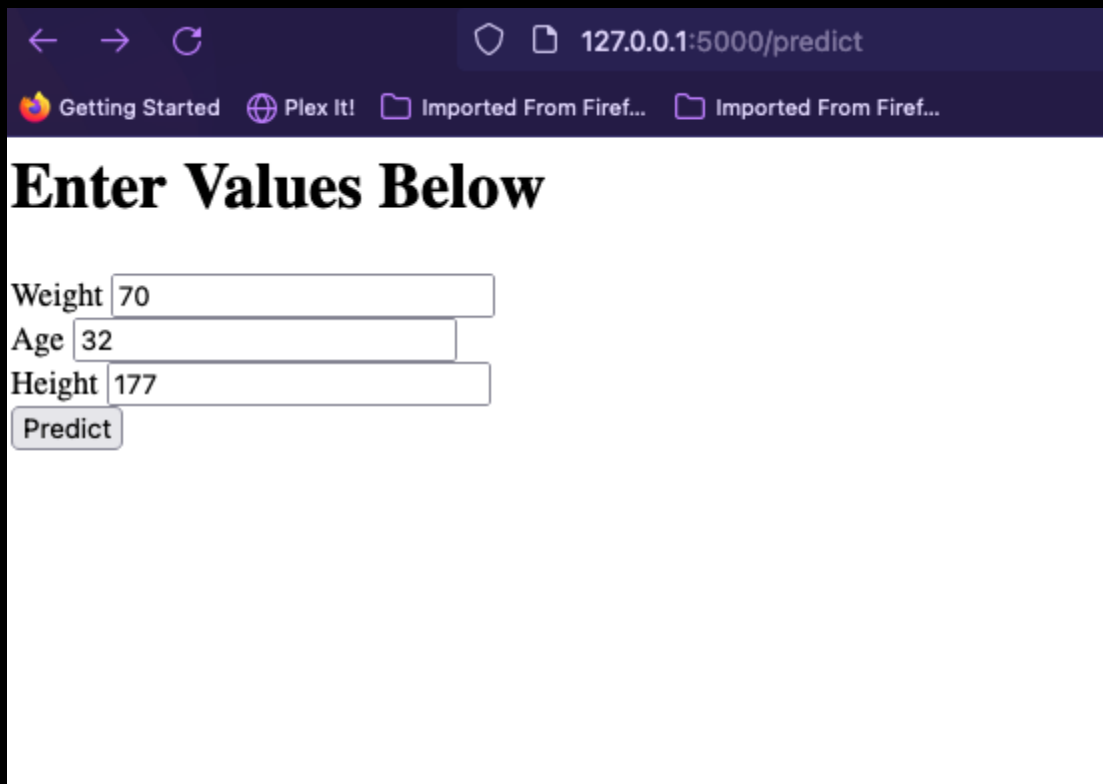
```
1  from flask import Flask, request, render_template, url_for, redirect
2  import sklearn
3  import numpy as np
4  import pickle
5
6  app = Flask(__name__)
7  model = pickle.load(open("model.pkl", 'rb'))
8
9  @app.route('/')
10 def home():
11     return render_template('form.html')
12
13 @app.route('/predict', methods=['POST'])
14 def predict():
15     Weight      = int(request.form["Weight"])
16     Age         = int(request.form["Age"])
17     Height      = int(request.form["Height"])
18
19     final_features = [np.array([Weight, Age, Height])]
20     prediction     = model.predict(final_features)
21     output         = prediction[0]
22
23     return render_template('form.html', prediction_text=output)
24
25 if __name__ == '__main__':
26     app.run(port=5000, debug=True)
```

Step 3: Run the application (screenshot taken after data entry was completed)

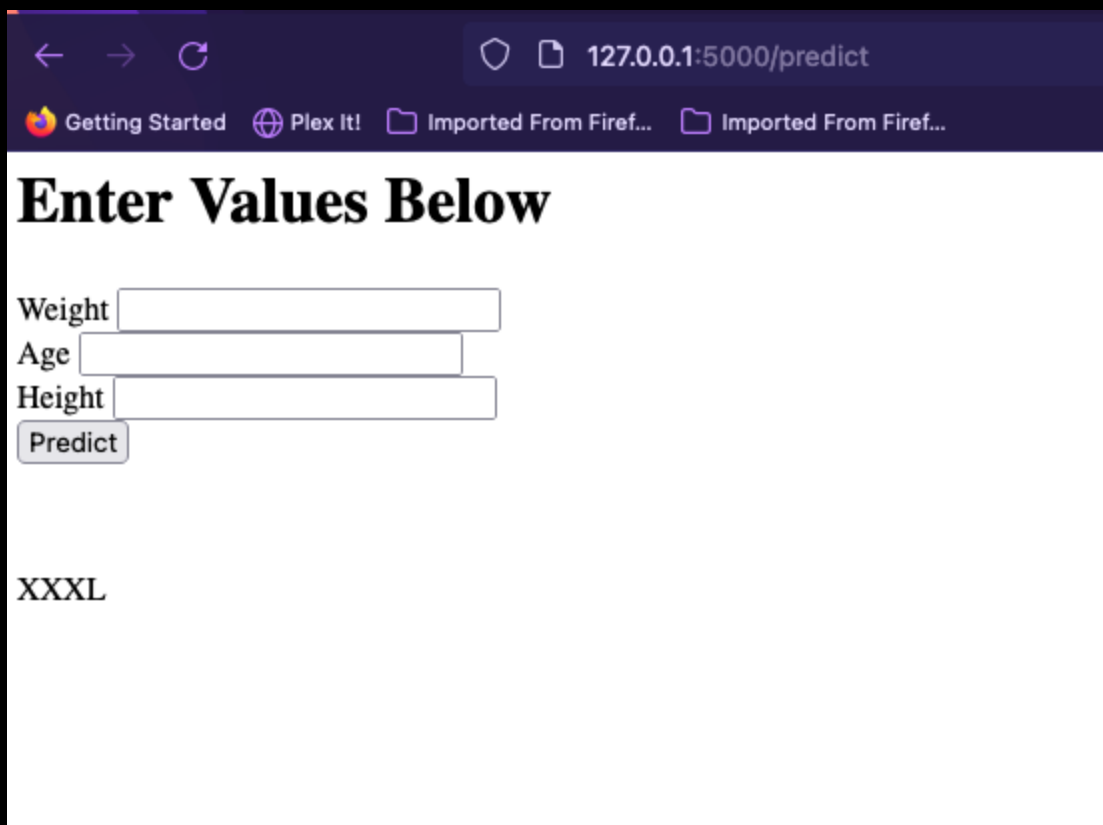


```
Week 4 — Python • Python app.py — 100x40
[funguy@Arhums-MacBook-Air Week 4 % python3 app.py
/usr/local/lib/python3.9/site-packages/sklearn/base.py:310: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.22.2.post1 when using version 0.24.2. This might lead to breaking code or invalid results. Use at your own risk.
  warnings.warn(
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with stat
/usr/local/lib/python3.9/site-packages/sklearn/base.py:310: UserWarning: Trying to unpickle estimator LogisticRegression from version 0.22.2.post1 when using version 0.24.2. This might lead to breaking code or invalid results. Use at your own risk.
  warnings.warn(
* Debugger is active!
* Debugger PIN: 890-181-426
127.0.0.1 - - [09/Aug/2021 13:14:10] "POST /predict HTTP/1.1" 200 -
```

Step 4: data entry / use the model



A screenshot of a web browser window. The address bar shows the URL `127.0.0.1:5000/predict`. The browser's bookmark bar contains links: "Getting Started", "Plex It!", "Imported From Firef...", and "Imported From Firef...". The main content area has a heading "Enter Values Below". Below the heading are three input fields: "Weight" with the value "70", "Age" with the value "32", and "Height" with the value "177". Below these fields is a button labeled "Predict".



A screenshot of a web browser window, similar to the one above. The address bar shows the URL `127.0.0.1:5000/predict`. The browser's bookmark bar contains links: "Getting Started", "Plex It!", "Imported From Firef...", and "Imported From Firef...". The main content area has a heading "Enter Values Below". Below the heading are three empty input fields: "Weight", "Age", and "Height". Below these fields is a button labeled "Predict". Below the "Predict" button, the text "XXXL" is displayed.