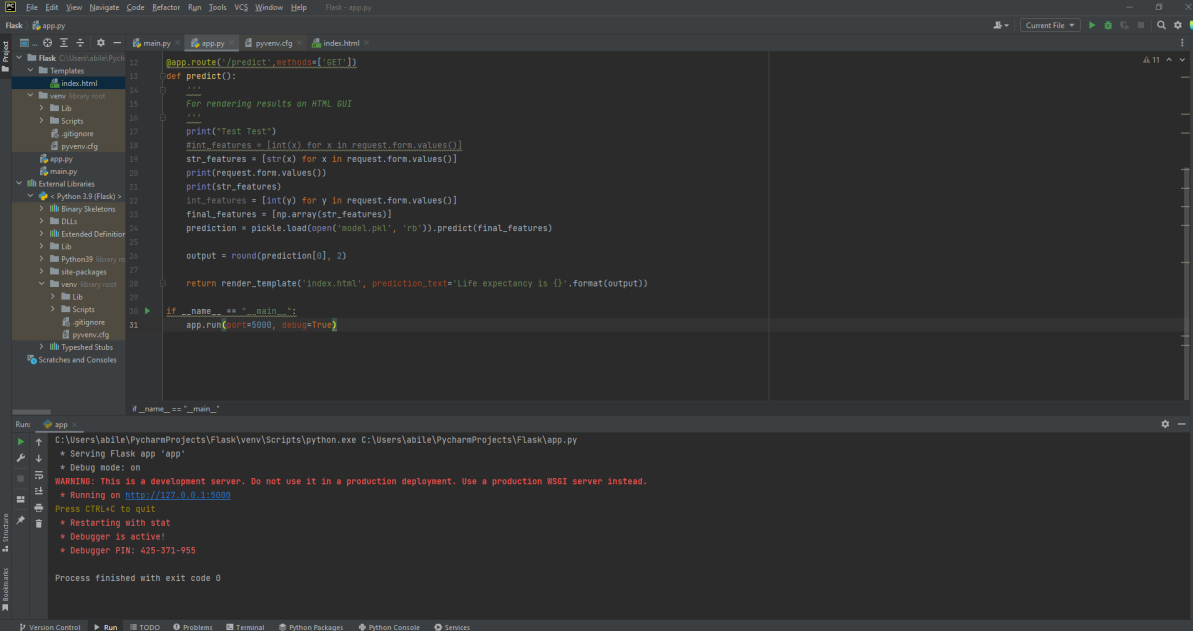


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Submission date: 11/28/2022



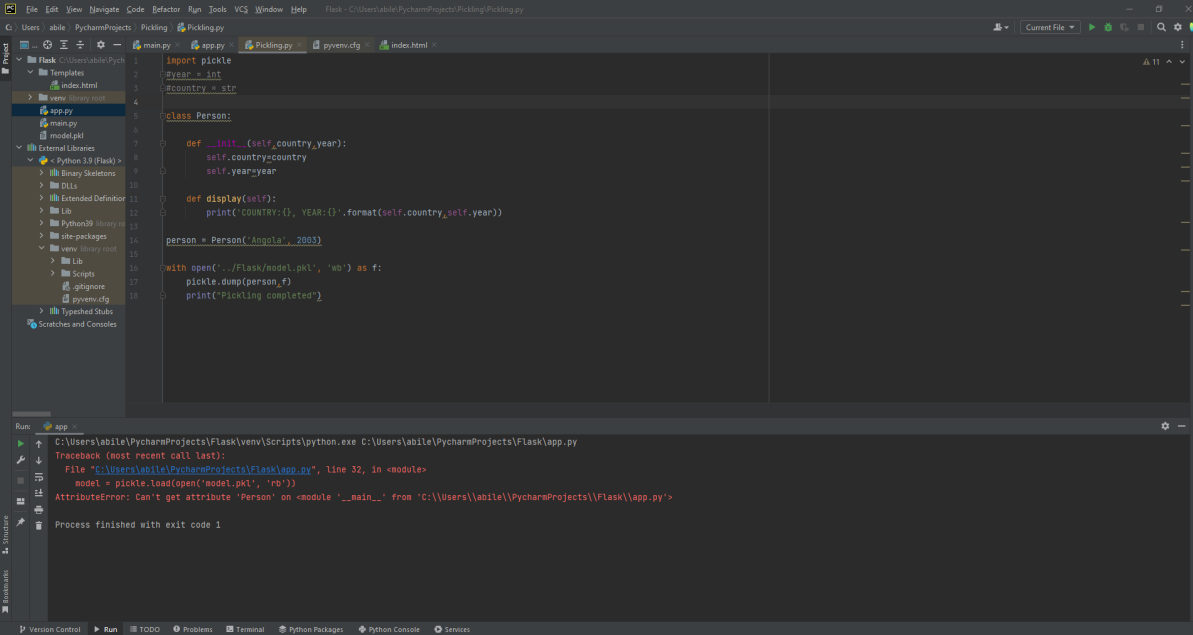
```
from flask import Flask, request, jsonify
import pickle

app = Flask(__name__)

@app.route('/predict', methods=['GET'])
def predict():
    """
    For rendering results on HTML GUI
    """
    print("Test Test")
    int_features = [int(x) for x in request.form.values()]
    str_features = [str(x) for x in request.form.values()]
    print(request.form.values())
    print(str_features)
    int_features = [int(y) for y in request.form.values()]
    final_features = [np.array(str_features)]
    prediction = pickle.load(open('model.pkl', 'rb')).predict(final_features)
    output = round(prediction[0], 2)
    return render_template('index.html', prediction_text='Life expectancy is {}'.format(output))

if __name__ == '__main__':
    app.run(host='0.0.0.0', debug=True)
```

This screenshot shows my python IDE in the app.py file. This tells the model what type of input the user will provide and where to get the corresponding output.



```
import pickle
year = int
country = str

class Person:
    def __init__(self, country, year):
        self.country = country
        self.year = year

    def display(self):
        print('COUNTRY: {}, YEAR: {}'.format(self.country, self.year))

person = Person('Angola', 2003)

with open('../Flask/model.pkl', 'wb') as f:
    pickle.dump(person, f)
    print("Pickling completed")
```

Traceback (most recent call last):
File "C:\Users\abile\PycharmProjects\Flask\app.py", line 32, in <module>
model = pickle.load(open('model.pkl', 'rb'))
AttributeError: Can't get attribute 'Person' on <module '__main__' from 'C:\Users\abile\PycharmProjects\Flask\app.py'>

This shows my pickling.py file that was used to serialize the toy data

The screenshot shows the PyCharm IDE with the `index.html` file open. The file contains the following HTML code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Life Expectancy</title>
</head>
<body>
  <div class="login">
    <h1>Predict Life Expectancy</h1>
    <form action="{{ url_for('predict')}}" method="get">
      <input type="text" name="country" placeholder="Country" required="required" />
      <input type="text" name="year" placeholder="Year" required="required" />
      <button type="submit" class="btn btn-primary btn block btn large">Submit</button>
    </form>
  </div>
</body>
</html>
```

The Run console at the bottom shows the following output:

```
Run: app
C:\Users\labile\PycharmProjects\Flask\venv\Scripts\python.exe C:\Users\labile\PycharmProjects\Flask\app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press Ctrl+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 425-371-955

Process finished with exit code 0
```

This is the `index.html` file that shows how I made the search bars and the submit button on the webpage.

Predict Life Expectancy

This is how the final webpage looked.