Flask Deployment of Dummy Model

Step 1. Download the following dataset from: https://www.kaggle.com/datasets/syuzai/perth-house-prices (saved as all_perth_310121.csv)

Step 2. Create model by the filename model.py, saved in same directory as csv file

Step 3. After running the Python code, which generates a file model.pickle, create another file app.py in the same directory

```
import numpy as np
from flask import Flask, request,render_template
import pickle

app = Flask(__name__)
model = pickle.load(open('model.pickle', 'rb'))

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

@app.route('/predict',methods=['POST'])
def predict():
    '''

For rendering results on HTML GUI
    '''

int_features = [float(x) for x in request.form.values()]
final_features = [np.array(int_features)]
    prediction = model.predict(final_features)

output = round(prediction[0], 2)

return render_template('index.html', prediction_text='House price should be $ {}'.format(output))

if __name__ == "__main__":
    app.run[debug=True]
```

- **Step 4.** Download and copy the static and templates folders in the Flask-Deployment available from Canvas
- **Step 5.** Modify the highlighted section in index.html to use the prediction variables: Bedrooms, Bathrooms, Garage spaces, Land area (m²), Floor area (m²), and Year of construction

```
clinctryPE html>
dhtml>
dhtml>
dhtml
```

Step 6. To run the code, run app.py and paste the highlighted URL in a browser

```
* Serving Flask app 'app' (lazy loading)

* Environment: production
WANNING: 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

* Debugger is active!

* Debugger PIN: 113-145-372
```

Step 7. Running in a browser opens the app interface. Enter desired values to predict house prices based on the model (serialized into model.pickle)

