1️⃣ Week 1: Python Basics & Foundational Metrics

This code calculates and prints **Possessions** (Pace) and **Offensive Efficiency** based on sample box score data.

```
# Week 1 Assignment – Pace and Offensive Efficiency


# Step 1: Enter game stats here (Using Celtics Sample Data)

FGA = 90  # Field Goal Attempts

FTA = 25  # Free Throw Attempts

OREB = 12 # Offensive Rebounds

TO = 14   # Turnovers

PTS = 115 # Points Scored


# Step 2: Calculate Possessions

# Use the coefficient 0.44 for Free Throw Attempts

possessions = FGA + (0.44 * FTA) - OREB + TO


# Calculate Offensive Efficiency

# Add a safety check for division by zero (though unlikely with real game data)

off_efficiency = (PTS / possessions) * 100 if possessions > 0 else 0


# Print the results in a clear sentence

print("The team scored", PTS, "points on", round(possessions, 2), "possessions.")

print("Offensive Efficiency:", round(off_efficiency, 2)) # Expected: 123.66
```