Nathalie Agustin

nagusti1

Module 2 Screenshots and Part 2 Answer

interest.py output:

```
Let's compute your total loan payment with interest.
Principal: 625937
Rate: .035
Term (Years): 30
Payments per year:  12
Total paid after 30 years: 1785978.0083211404
Interest paid after 30 years: 1160041.0083211404

Process finished with exit code 0
```

rate.py output:

```
Let's compute your interest rate.
Principal: 625937
Total: 1785978.0083211404
Term (Years):  30
Payments per year: 12
The interest rate for 625937 that cost 1785978.0083211404 over 30 years is: 0.03500000000000014

Process finished with exit code 0
```

Part 2 Question:

The result from rate.py does **not** *exactly* match the input rate from Part 1. The slight discrepancy is attributed to the way floating point numbers are stored in Python. Floating numbers are represented as binary fractions according to this week's reading/lecture, rather than decimal fractions. The difference is miniscule, but it is enough to have a slight discrepancy between the expected output and the returned result.