FINE 3300 (Fall 2025) — Assignment #1
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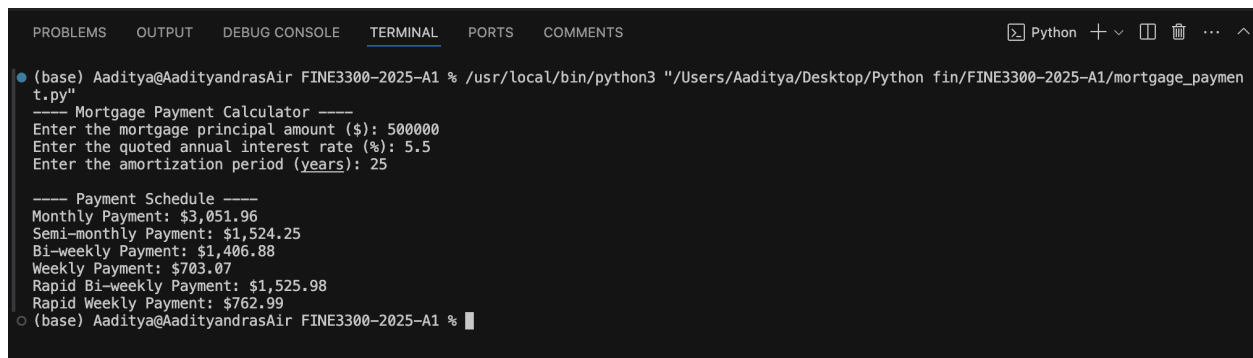
Repository link: https://github.com/acg0707/FINE3300-2025-A1

This repository contains both parts of Assignment #1 for the course FINE 3300 (Fall 2025). The assignment focuses on using Python and Visual Studio Code, while managing version control through GitHub.

The project includes:

1. Mortgage Payment Calculator — Computes different types of Canadian mortgage payment frequencies.
2. Currency Exchange Converter — Reads exchange rate data from a CSV file (Bank of Canada) and converts between CAD and USD.

Part 1: Mortgage Payments

Example Input & Output

Input:
Principal: $500000
Interest Rate: 5.5%
Amortization: 25 years

Output:
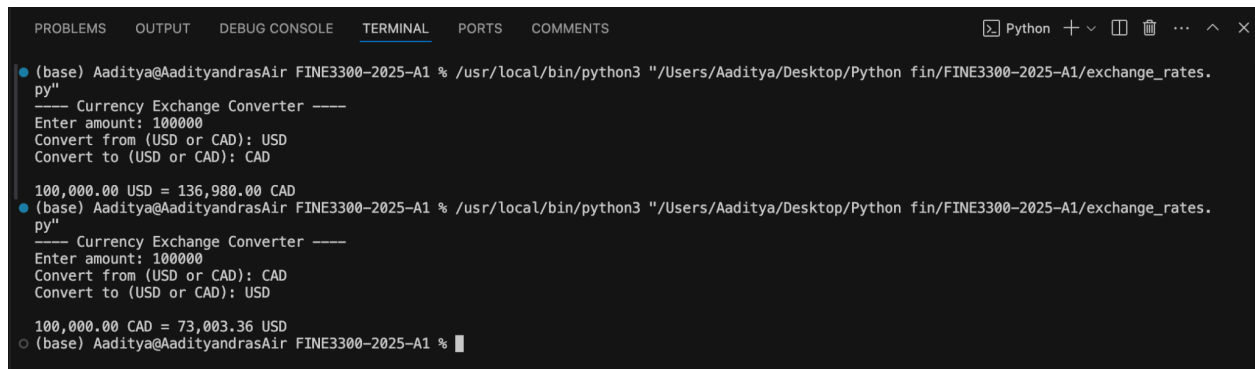Monthly Payment: $3,051.96
Semi-monthly Payment: $1,524.25
Bi-weekly Payment: $1,406.88
Weekly Payment: $703.07
Rapid Bi-weekly Payment: $1,525.98
Rapid Weekly Payment: $762.99

Part 2: Exchange Rates


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PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   COMMENTS                              Python  +  ∨  ⊟  🗑  ⋯  ∧  ✕

● (base) Aaditya@AadityandrasAir FINE3300-2025-A1 % /usr/local/bin/python3 "/Users/Aaditya/Desktop/Python fin/FINE3300-2025-A1/exchange_rates.
  py"
  ---- Currency Exchange Converter ----
  Enter amount: 100000
  Convert from (USD or CAD): USD
  Convert to (USD or CAD): CAD

  100,000.00 USD = 136,980.00 CAD
● (base) Aaditya@AadityandrasAir FINE3300-2025-A1 % /usr/local/bin/python3 "/Users/Aaditya/Desktop/Python fin/FINE3300-2025-A1/exchange_rates.
  py"
  ---- Currency Exchange Converter ----
  Enter amount: 100000
  Convert from (USD or CAD): CAD
  Convert to (USD or CAD): USD

  100,000.00 CAD = 73,003.36 USD
○ (base) Aaditya@AadityandrasAir FINE3300-2025-A1 % ▉
```

Example Input & Output

Input:
Enter amount: 100000
Convert from: USD
Convert to: CAD

Output:
100,000.00 USD = 136,980.00 CAD

Reverse Conversion:
Enter amount: 100000
Convert from: CAD
Convert to: USD

Output
100,000.00 CAD = 73,003.36 USD