

# Programming Exercise 4.3

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## My Savings Plan, v.1.0

**Purpose.** Practice writing a program that performs a calculation using a math library function, and outputs nicely formatted results.

Come up with a personal savings plan. Decide how much money you will add to your savings account every month (for example, \$10, \$100, etc.). Find out what annual interest rate you can expect (for example, 0.04 is 4%: check google.com, wells Fargo.com, worldsavings.com, the newspaper, etc.). Decide how many more years you have until you retire (for example, 5, 50, etc.). So if you put that amount of money to your bank account every month until you retire, and get that annual interest rate for all those years, how much money will you have when you retire?

### Requirements.

Write `mySavingsPlan1.py` as a modification of chapter 4's `mort2.cpp`, with *your* personally chosen values of `years`, `D`, and interest rate, all different from the values in the book's example.

The book's example does not echo the annual interest rate, but your version of the program should include it.

**Program I/O.** Input: 3 programmer-specified inputs (years, amount to deposit per month, and interest rate) Output: Echoes of each input, and how much money will you have when you retire.

### Example.

In 10 years at 7.5%, \$100 deposited per month will grow to \$17793.03.