

Bronx Community College
Department of Mathematics and Computer Science
CSI31 Fall 2018

Programming Assignment 1: worth 25 points

Assigned on September 12, 2018

Due on September 24, 2018

Assignment: Write a program that computes the present value of a future amount of money. After the present value has been computed, print out the value of the investment at the end of every year. Test your program.

In class we wrote a program to compute the value at a time in the future of an amount of money invested at a certain interest rate for some number of years. For the first year, the program computed the amount of interest and added the interest to the original investment to get the new invested amount. Then for the second year, the program followed the same process, and so on until the program had computed the value after the desired number of years.

This present value program will do the reverse. It will find the amount of money to invest now at a certain fixed interest rate in order to have a specified amount of money after some number of years. That amount to invest now is the present value of the specified amount at the end of the investment period.

Part I, worth 5 points.

Type your design for this program in words and mathematical symbols, and submit it to me by email at prof.persinger@gmail.com today. You must hand in this program design or you will lose 5 points.

Part II, worth 20 points.

Implement your program design. Submit your program file and a file containing the results of testing your program by email to me at prof.persinger@gmail.com by September 24, 2018 at midnight. Be sure that your name is in both files.