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William Kelley
Lab 11 - First PERL Script - ITE315/Scripting
#!/usr/bin/perl
# File: lab11.part01.compound.p1
# Author: William Kelley
# Purpose: Demo Perl by implementing a compound interest calculator
use 5.010;
use warnings;
my $outfile = 'interest.txt';
my $nestEgg = 10000;
my year = 2008;
my \$duration = 10;
          = 9.5;
my $apr
my $reportFH = openReport( $outfile );
printHeaders( $reportFH);
interestReport( $reportFH, $nestEgg, $year, $duration, $apr );
reportFooter( $reportFH, $nestEgg, $duration, $apr );
sub openReport {
 my ( $outfile ) = @_;
 open my $report, '>', $outfile or die "Can't open '$outfile': $!";
 return $report;
sub interestReport {
# Get our parameters. Note that these variables won 't clobber the
# global variables with the same name.
 my ($reportFH, $nestEgg, $year, $duration, $apr) = @_;
# Calculate interest for each year.
 for my $i (1..$duration) {
  my $interest = int(($apr/100) * $nestEgg * 100) / 100;
  my $line = join "\t", $year + $i, $nestEgg, $interest, $nestEgg + $interest;
  say $line
  say $reportFH $line;
  $nestEgg += $interest;
}
sub printHeaders {
my ( $reportFH ) = @_;
# Print the headers for our report.
 say "Year \tBalance \tInterest \tNew balance";
 say $reportFH "Year \tBalance \tInterest \tNew balance";
sub reportFooter {
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my ($reportFH, $nestEgg, $duration,$apr) = @_;
 say "\nOur original assumptions: ";
 say "Nest egg: $nestEgg";
 say "Number of years: $duration";
 say "Interest rate: $apr";
 say $reportFH "\nOur original assumptions: ";
 say $reportFH "Nest egg: $nestEgg";
 say $reportFH "Number of years: $duration";
 say $reportFH "Interest rate: $apr";
Year Balance
                              New balance
                  Interest
2009
      10000 950 10950
2010 10950 1040.25 11990.25
2011
      11990.25
                   1139.07 13129.32
2012 13129.32
                   1247.28 14376.6
2013 14376.6 1365.77 15742.37
2014 15742.37
                   1495.52 17237.89
2015 17237.89
                   1637.59 18875.48
2016
      18875.48
                   1793.17 20668.65
2017
      20668.65
                   1963.52 22632.17
2018 22632.17
                   2150.05 24782.22
Our original assumptions:
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Nest egg: 10000 Number of years: 10 Interest rate: 9.5