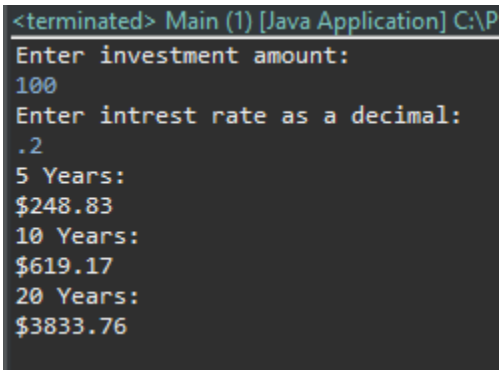
CECS 220 Assignment #1

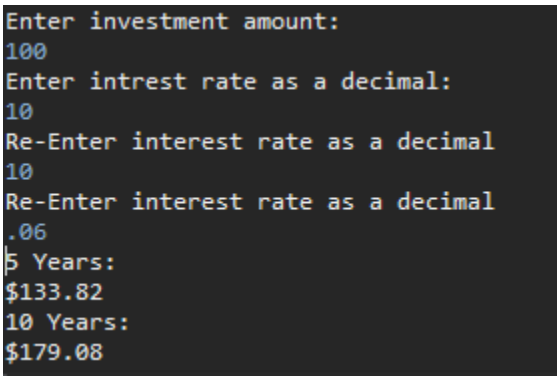
Nicholas Gittings

May 29, 2018

To solve Problem #1: The Future Value Calculator, first a scanner must be used for reading user inputs. To use scanner class, import from java.utilities. Next, a function is needed to calculate the future values, a private function is created taking two double parameters investment amount and interest rate, then one integer parameter which is year. Doubles interestValue and total are declared in which interestValue is equal to 1 + interest rate to the years specified. Total is equal to the investment amount times the interestValue. In the main function the user is prompted for the investment amount and interest rate. The scanner reads the inputs, then the calculator function is used to use the user inputs and calculate 3 times to 5, 10, and 20 years. The results are then outputted to the user, then the program terminates.

The following snapshots are of success and attempts to break the program by not using decimals.





To solve Problem #2: The Coins, first import javax.swing for JFrame and java.awt for graphics and color. Use the paint function from graphics to create the circles required for the coins. The following functions must be used to draw, set the color, fill the circles, and add the string: drawOval, setColor, fillOval, drawString. Next, in the main, create a JFrame, set the size and default close of the JFrame, and then create a Circles object named coins, add that to the JFrame, then lastly set the JFrame to visible.

The following is a snapshot of the coins in JFrame.