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Period A

9.11.2015

This program is to determine whether it is better

to take 1 million dollars up front, or take 1 penny, that doubles in value

each day for 30 days

The variable day keeps track of how many days have passed

The variable penny keeps track of the money made off of the starting 1 cent\*/

import javax.swing.JOptionPane;

public class PennyMillionaire

{

public static void main (String args [])

{

int day = 2;

double penny = 0.01;

while (day <= 30) //Keeps running the loop until int "day" equals 30

{

day = day + 1; //This adds one day to int “day” each time the loop is run

penny = penny \* 2; //This multiplies the int "penny" by 2 each time the loop is run

}

if (penny > 1000000) //Checks if the penny value is greater than 1 million

{

JOptionPane.showMessageDialog (null, "You have earned over 1,000,000 dollars! Final amount: $" + penny); //what happens when the penny value is greater than the $1 million

}

else

{

JOptionPane.showMessageDialog (null, "You have earned 1,000,000 dollars!"); //what happens when 1 million is greater than the penny value

}

}

}