Java Homework 

Due:

Description: Investment calculator

Your task is to write a java program that produces information about a financial investment.

Inputs to the program
The interest rate (expressed as a percentage), the initial principal(in $) and the number of years.

Outputs of the program
A table whose outputs include;
the year number, the principal at the beginning of the year, the interest earned, the principal at the end of the year.

Data Validation
0 <= interest rate <= 200, 0 <= initial investment <= 10,000, 0 < number of years <=40

PROVIDE AN ERROR MESSAGE IF THE ANY OF THE INPUTS IS OUT OF RANGE!!!

See below for example or run example from mr Hanley's web site

Please enter the starting investment:(0-10000)
Please enter value:->
100

Please enter the rate (0-200)%
Please enter value:->
10

Please enter the number of years
Please enter value:->
20

NOTE: I round off all values to nearest dollar after each calculation
NOTE: How do I make the columns line up?
As long as they don't differ by too much, use a \t between each column
System.out.println("Year\tStart\tEarned\tEnd");
And later on…
System.out.println(i+"\t"+start+…);

If the numbers differ a lot, see System.out.format for EXACT field widths for variables, not necessary in this course, we do use this in AP Computer Science)

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$ $ $ I N V E S T M E N T  C A L C U L A T O R $ $ $|
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Year	Start	Earned	End
1	100.0	10.0	110.0
2	110.0	11.0	121.0
3	121.0	12.0	133.0
4	133.0	13.0	146.0
5	146.0	15.0	161.0
6	161.0	16.0	177.0
7	177.0	18.0	195.0
8	195.0	20.0	215.0
9	215.0	22.0	237.0
10	237.0	24.0	261.0
11	261.0	26.0	287.0
12	287.0	29.0	316.0
13	316.0	32.0	348.0
14	348.0	35.0	383.0
15	383.0	38.0	421.0
16	421.0	42.0	463.0
17	463.0	46.0	509.0
18	509.0	51.0	560.0
19	560.0	56.0	616.0
20	616.0	62.0	678.0