

Drill - Simple Interest Calculator

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Concepts being Tested

- Importing an existing project into Eclipse
- Using the Graphical Layout Editor
- Identifying appropriate views for a specific task
- Getting references to views from the layout using Java
- Use of the view property getters and setters
- Use of event listeners

What to do?

- Download the project template
- Follow the upcoming instructions

Input principal amount here.
What view would you use?

This text should update when you move
the thumb on the SeekBar.

Expected behavior: When you choose 10
years on the SeekBar, this text should
read '10 Year(s)'

Use the
OnSeekBarChangeListener
to update the number of years TextView
when the user moves the SeekBar thumb.

Principal Amount (\$)

10000

Interest Rate

11.25

2 Year(s)

The interest for \$10000 at a rate of 11.25% for 2 year(s) is \$2250.

Calculate

Interest rate expressed in percent.

Display this sentence after you click the
'Calculate' button. Use the following formula for
calculating Simple Interest.

$$\text{Principal Amount} \times \frac{\text{Interest Rate}}{100} \times \text{Years}$$

Use an **OnClickListener**
to do the calculation using the formula given
above and display the result.

Inputs and Results

- \$100 at 5% for 1 year yields \$5.00
- \$10,000 at 11.25% for 2 years yields \$2250.00
- \$5,122 at 5.7% for 5 years yields \$1459.77

Tips

- Getting a ***String*** from an ***EditText***
 - `String text = editText.getText().toString();`
- Converting ***String*** to ***Double***
 - `double rate = Double.parseDouble(rateString);`
- To restrict floating point results to 2 decimal places, use the following,
 - `String.format("%.2f", anyDecimalNumber)`

All the best!