

# Part 3: Practice Expressions

## Solution Code

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The reason we changed the code to simpler values was so that we only had a few expressions to write before we could get to the final result amount repayable. And also so that we could get used to 'eyeballing' the results as they appear in the debugger to check our work as we go. (We don't need to check the actual results, but just knowing that \$100 with 10% added would give \$110 at the end of year 1, this would be enough to get 'a feel' that our program was working as we expect - that's all we're after at this point, just developing your intuition and eye for these things).

## Code Listings

### App.java

```
package com.javaeasily.demos;

public class App {
    public static void main(String[] args) {
        System.out.println("Loan Calculator");

        int amount = 100;
        int years = 5;
        double interestRate = 10;

        double interestRateMultiplier = 1 + interestRate / 100;

        double year1AmountDue = amount * interestRateMultiplier;
        double year2AmountDue = year1AmountDue * interestRateMultiplier;
        double year3AmountDue = year2AmountDue * interestRateMultiplier;
        double year4AmountDue = year3AmountDue * interestRateMultiplier;
        double year5AmountDue = year4AmountDue * interestRateMultiplier;
    }
}
```