Chapitre 11
Debugging

Debugging in IntelliJ

Debugging

1. L’exemple du Calculator

L’exemple du Calculator

Soit la classe *Calculator*

```java
@Service
public class Calculator {

    public Double add (Double number1, Double number2)
    { return number1 + number2; }

    public Double subtract (Double number1, Double number2)
    { return number1 - number2; }

    public Double multiply (Double number1, Double number2)
    { return number1 * number2; }

    public Double divide (Double number1, Double number2) throws DivisionException {
        if (number2 == 0) throw new DivisionException(number2);
        else return number1 / number2; }
}
```

L’exemple du Calculator

Exemples d’utilisation de la classe *Calculator*

- *Calculator calculator = new Calculator();*

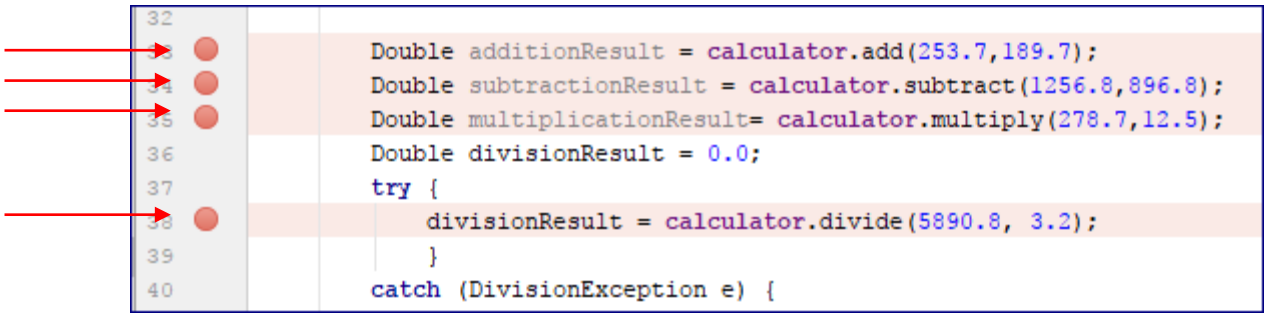
```
Double additionResult = calculator.add(253.7,189.7);
Double subtractionResult = calculator.subtract(1256.8,896.8);
Double multiplicationResult= calculator.multiply(278.7,12.5);
Double divisionResult = 0.0;
try {
    divisionResult = calculator.divide(5890.8, 3.2);
    }
catch (DivisionException e) {
```

Debugging

1. **L’exemple du Calculator**
2. **Breakpoints**

Breakpoints

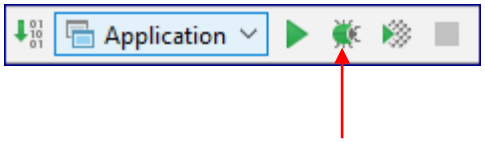
- Placer des breakpoints
  - En cliquant dans la colonne de gauche



Debugging

1. **L’exemple du Calculator**
2. **Breakpoints**
3. **Debug de l’application**

Debug de l'application



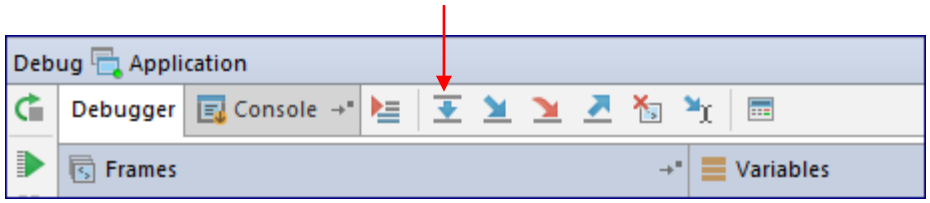
⇨ L'exécution stoppe au premier break point

```
Double additionResult = calculator.add(253.7,189.7);  calculator: Calculator@4943
Double subtractionResult = calculator.subtract(1256.8,896.8);
Double multiplicationResult= calculator.multiply(278.7,12.5);
Double divisionResult = 0.0;
try {
    divisionResult = calculator.divide(5890.8, 3.2);
    }
catch (DivisionException e) {
```

Debug de l'application

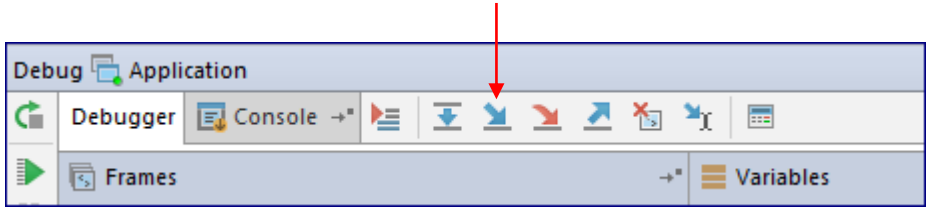
Step Over (F8)

- Pour passer à l'étape suivante



Step Into (F7)

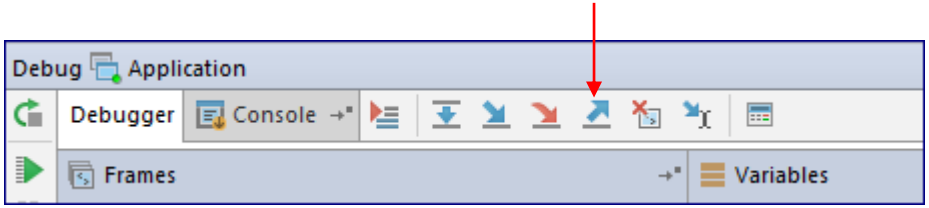
- Pour visiter l'intérieur de la méthode



Debug de l'application

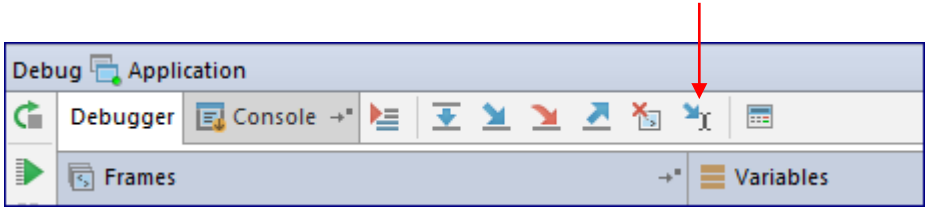
Step Out (Maj + F8)

- Pour revenir à la méthode appelante



Run to Cursor (Alt + F9)

- Pour aller au break point suivant ou terminer l'exécution



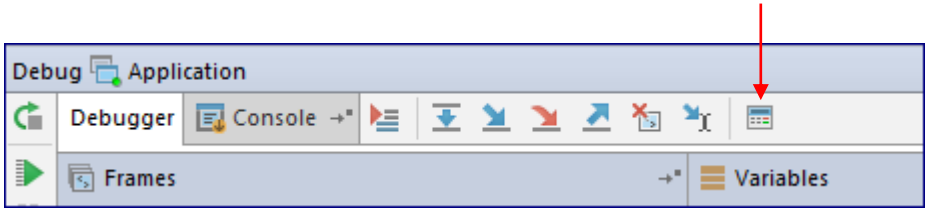
Debugging

1. **L’exemple du Calculator**
2. **Breakpoints**
3. **Debug de l’application**
4. **Evaluer les expressions**

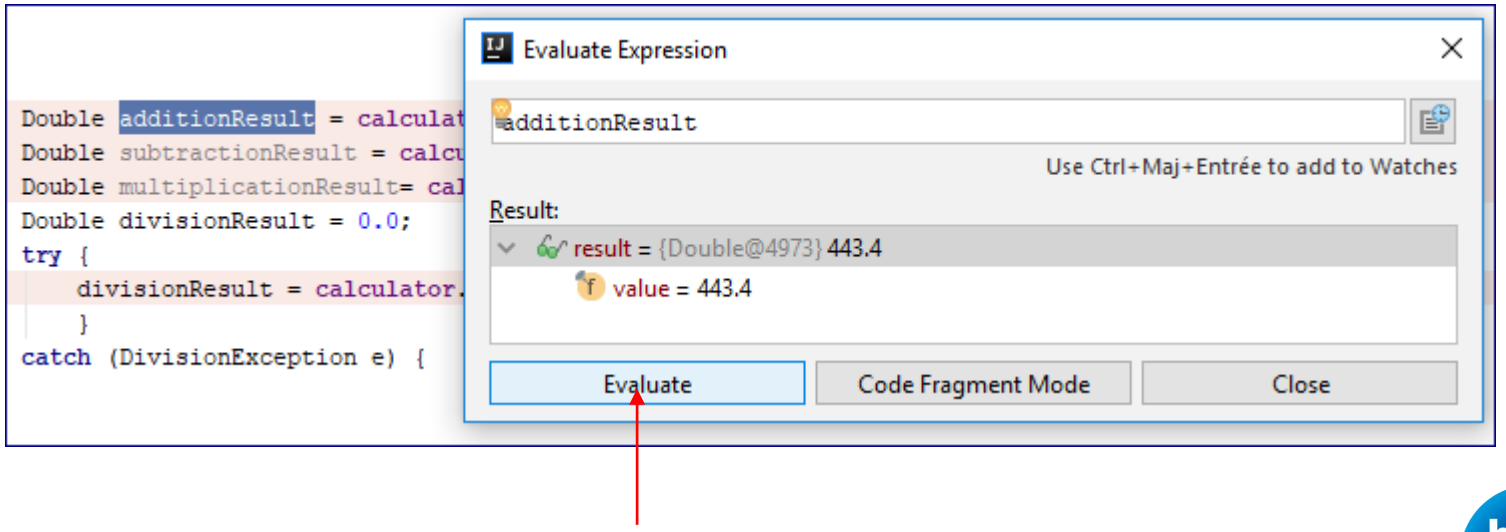
Evaluer les expressions

Sélectionner une variable

⇨ Evaluate Expression (Alt + F8)



Ex, *additionResult*



Evaluate Expression

Ou via la fenêtre debugger

⇨ cf. Variables