

Recipe 0.7. Creating a conditional expression

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1. Problem

You want to create a conditional expression from other conditions.

2. Solution

Here is an example of code to define conditional expression:

```
// an engine handles expression building
ConditionInterpreter<Double> engine =
    ConditionInterpreter.newInstance();

// the engine has an internal symbol table that map a symbol name with
// a condition

// creation and registering of the condition "c1"
engine.addCondition("c1", new ConditionImpl.Builder<Double,
    Double>(0.).operator(OperatorGreaterThan.newInstance()).build());

// creation and registering of the condition "c2"
engine.addCondition("c2", new ConditionImpl.Builder<Double,
    Double>(10.).operator(OperatorLowerThan.newInstance()).build());

// creation of a complex condition over "c1" and "c2"
Condition<Double> condition = engine.compile("c1 & c2");

// test the new conditional expression
Assert.assertTrue(condition.isTrue(4.));
Assert.assertFalse(condition.isTrue(14.));
```

3. Discussion

4. See Also

See also this link to [conditions](#).