

DROOLS	Visual Prolog
<pre> declare Student dateOfBirth: java.util.Date city : String @maxLength(100) name: String grade: int end </pre>	<pre> dateOfBirth: string. city : string. name : string. grade: int. student(name, grade, city, dateOfBirth). </pre>
<pre> rule "first_rule" salience 1 when \$s : Student(name == "Anton" && grade == 3 && city == "Moscow" && dateOfBirth.equals(new Date(2001, 01, 21)) then System.out.println("yes"); end </pre>	<pre> clauses student("Anton", 3, "Moscow", "2001-01-21"). goal student("Anton", 3, "Moscow", "2001-01-21"). </pre>
<pre> rule "second_rule" salience 1 when \$s : Student(name == "Anton") then \$s.setGrade(5); \$s.setDateOfBirth(new Date(2000, 1, 1)); \$s.setCity("Vladimir"); update(\$s); System.out.println("yes" + \$s.getDateOfBirth() + \$s.getGrade() + \$s.getCity()); end </pre>	<pre> clauses student("Anton", 5, "Vladimir", "2000-01-01"). goal student("Anton", Grade, City, Date). </pre>

<pre> rule "third_rule" salience 1 when \$s : Student(name == "Anton") \$c : Car(model == "BMW") then \$s.setGrade(1); \$s.setCity("Moscow"); update(\$s); System.out.println("yes" + \$s.getGrade() + \$s.getCity()); end </pre>	<pre> clauses rule(Name, City, Grade, Model) :- Student(Name, Grade, City, _), Car(Model, _, _). goal rule("Anton", City, Grade, "BMW"). </pre>
<pre> rule "fourth_rule" salience 1 when \$s : Student(name == "Anton" && grade >= 3 && city == "Moscow" && dateOfBirth.equals(new Date(2001, 01, 21)) then System.out.println("yes"); end </pre>	<pre> clauses student("Anton", 3, "Moscow", "2001-01-21"). student("Anton", 4, "Moscow", "2001-01-21"). student("Anton", 5, "Moscow", "2001-01-21"). goal student("Anton", 3, "Moscow", "2001-01-21"). </pre>