Bean Properties

Create a project named 04\_BeanProperties and copy the previous project files (named 03\_BeansConstructorArguments) at our new project and we will work from there.

1. Add nationalId attribute at Patient.java class
2. Generate getter and setter for nationalId
3. Remove toString() method and generate again
4. Go to the beans.xml and write click on that
5. Select Insert <Property> element
6. Name=nationalId
7. Value=1234
8. Now we will run the App.java file and get Patient [id=1, name=Shekhar, nationalId=1234] output

# Notes

**Variable** can be local, field, or constant (although this is technically wrong). It's vague like attribute. Also, you should know that some people like to call **final** non-static (local or instance) variables

"**Values**". This probably comes from emerging JVM FP languages like Scala.

**Field** is generally a private variable on an instance class. It does not mean there is a getter and a setter.

**Attribute** is a vague term. It can easily be confused with XML or Java Naming API. Try to avoid using that term.

**Property** is the getter and setter combination.

Some examples below

|  |
| --- |
| public class Variables {  //Constant  public final static String MY\_VARIABLE = "that was a lot for a constant";  //Value  final String dontChangeMeBro = "my god that is still long for a val";  //Field  protected String flipMe = "wee!!!";  //Property  private String ifYouThoughtTheConstantWasVerboseHaHa;  //Still the property  public String getIfYouThoughtTheConstantWasVerboseHaHa() {  return ifYouThoughtTheConstantWasVerboseHaHa;  }  //And now the setter  public void setIfYouThoughtTheConstantWasVerboseHaHa(String ifYouThoughtTheConstantWasVerboseHaHa) {  this.ifYouThoughtTheConstantWasVerboseHaHa = ifYouThoughtTheConstantWasVerboseHaHa;  }  } |