Kofax Kapow 10.3 Training and Certification

Module 7 – Basic Loops

Extracting from multiple items on a page

Kofax
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KOFAX

# Kofax Kapow Module Overview

- Going to a page listing multiple items

- Looping through multiple items on a page

- Using Snippets

- Extracting Data

- Returning Results

- Testing and Debugging

We Want to get Details for All Items on this Page

◆ This is page 1 of the Products listed on our website.

◆ Let's imagine that we want our Robot to click on every item on this page and for each item, extract the same detail that we extracted earlier for a single item.

◆ The answer is a loop.
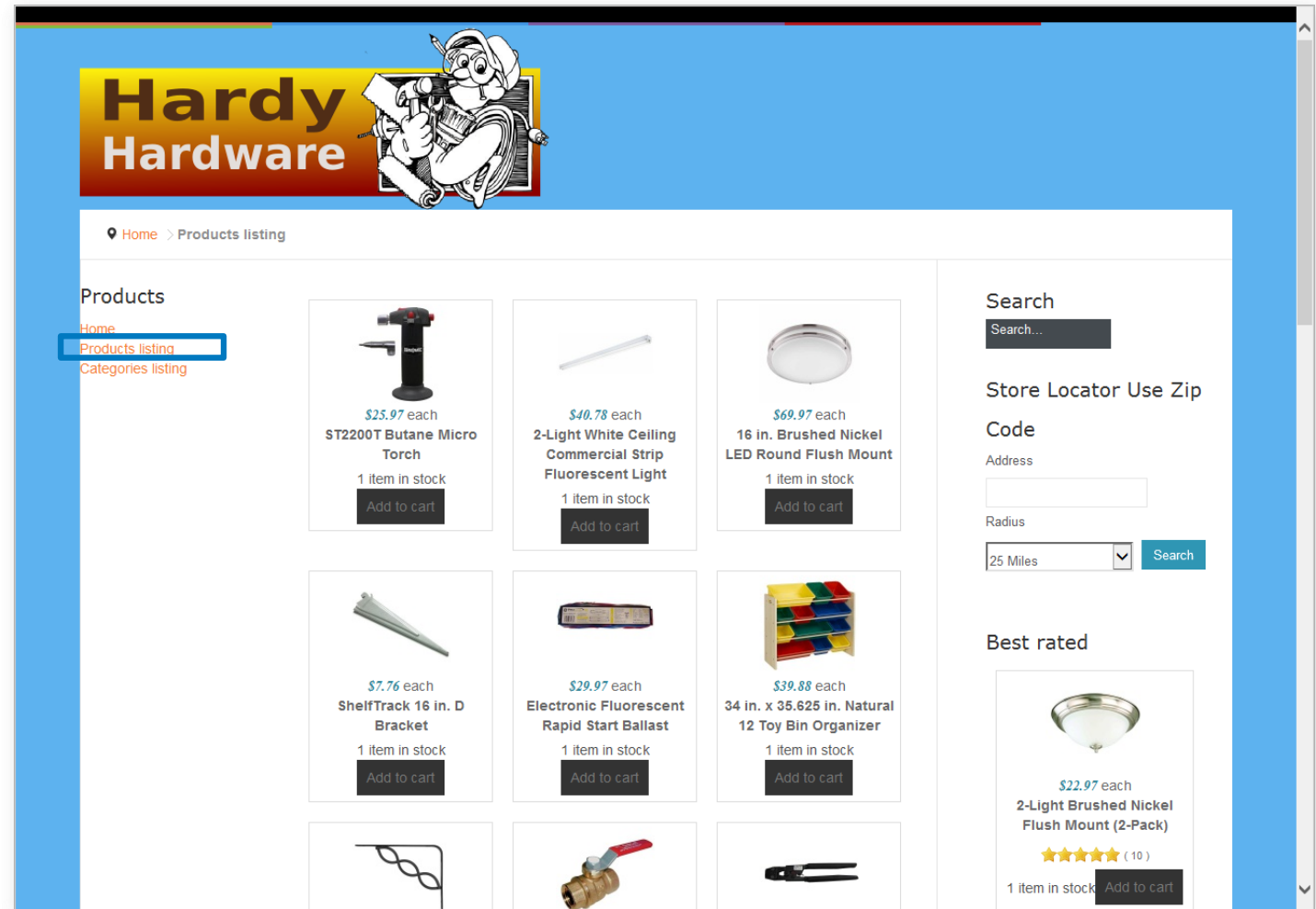
Looping through Tags with the Same Class

- There are a couple of ways to set up a loop. The first way is the easiest if it is viable, and involves looping over tags which all share a class attribute. For example…
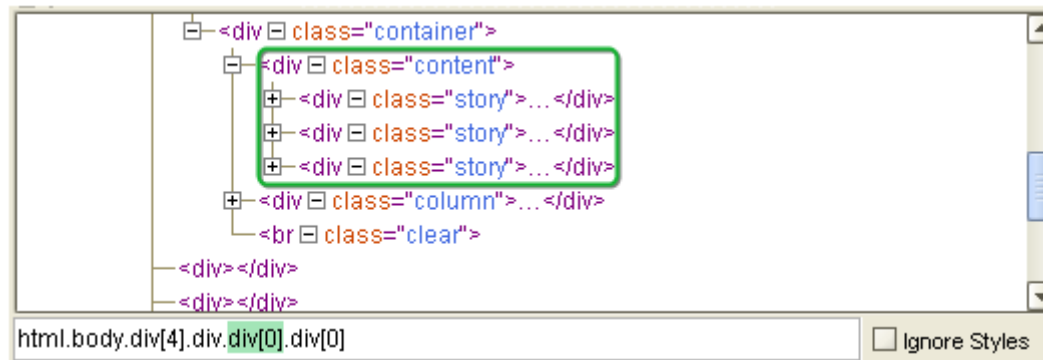

- Each div element has the attribute class="story".

- To determine whether looping through tags with the same class might be possible, find the elements in the HTML view. In the case shown above, it would be possible to loop through the three div tags with the attribute class="story".

- The easiest way to create the loop, is to right click the first tag and select to Loop For Tags With Class.

Before We Create Our Loop, Lets Create Our New Robot

Again, we're going to use the Default (Webkit) browser engine and Minimal Execution (Direct).
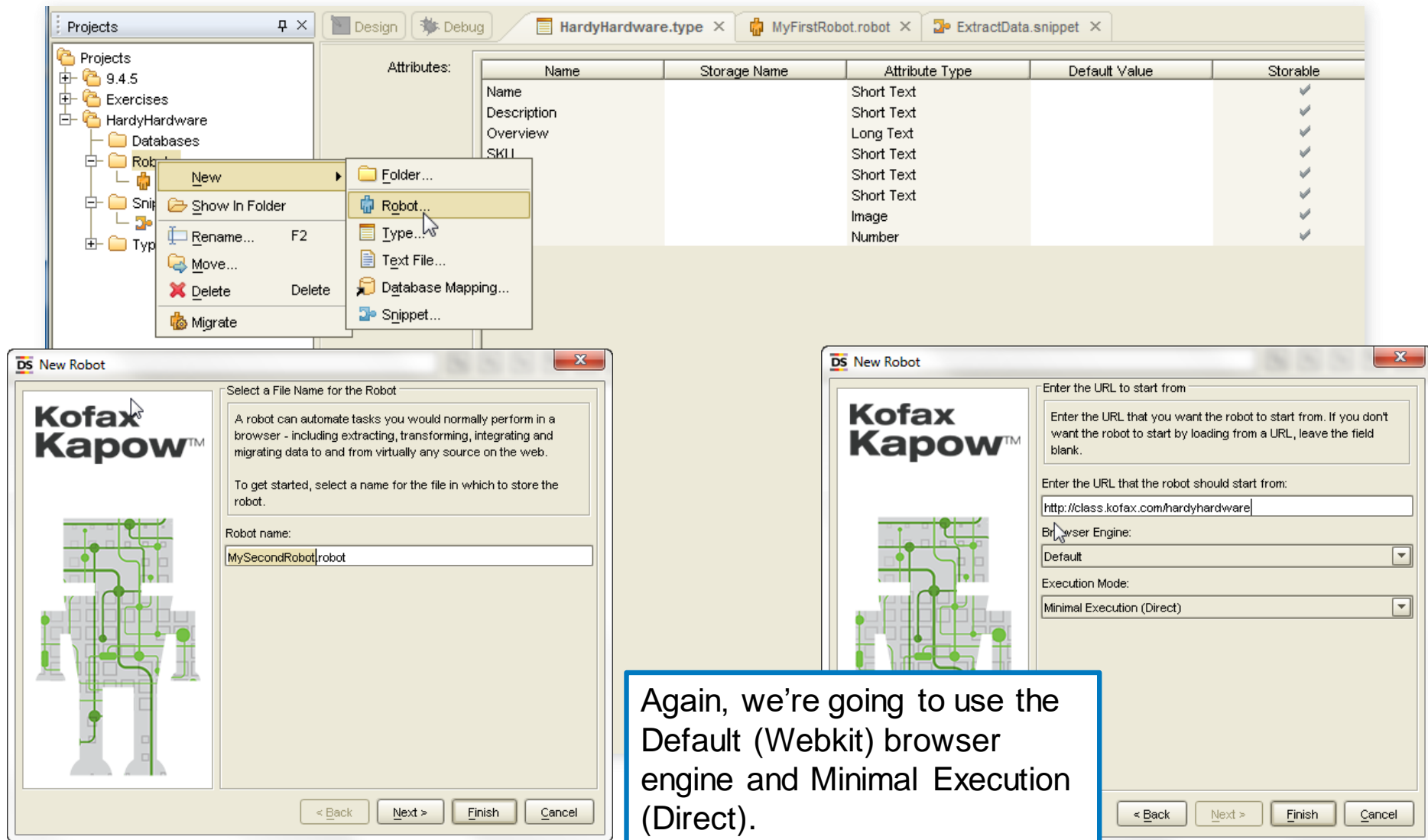
Add Click Step to Go to the Products Page

- Right mouse-click on the "Products Listing" link and select "Click" from the context menu.
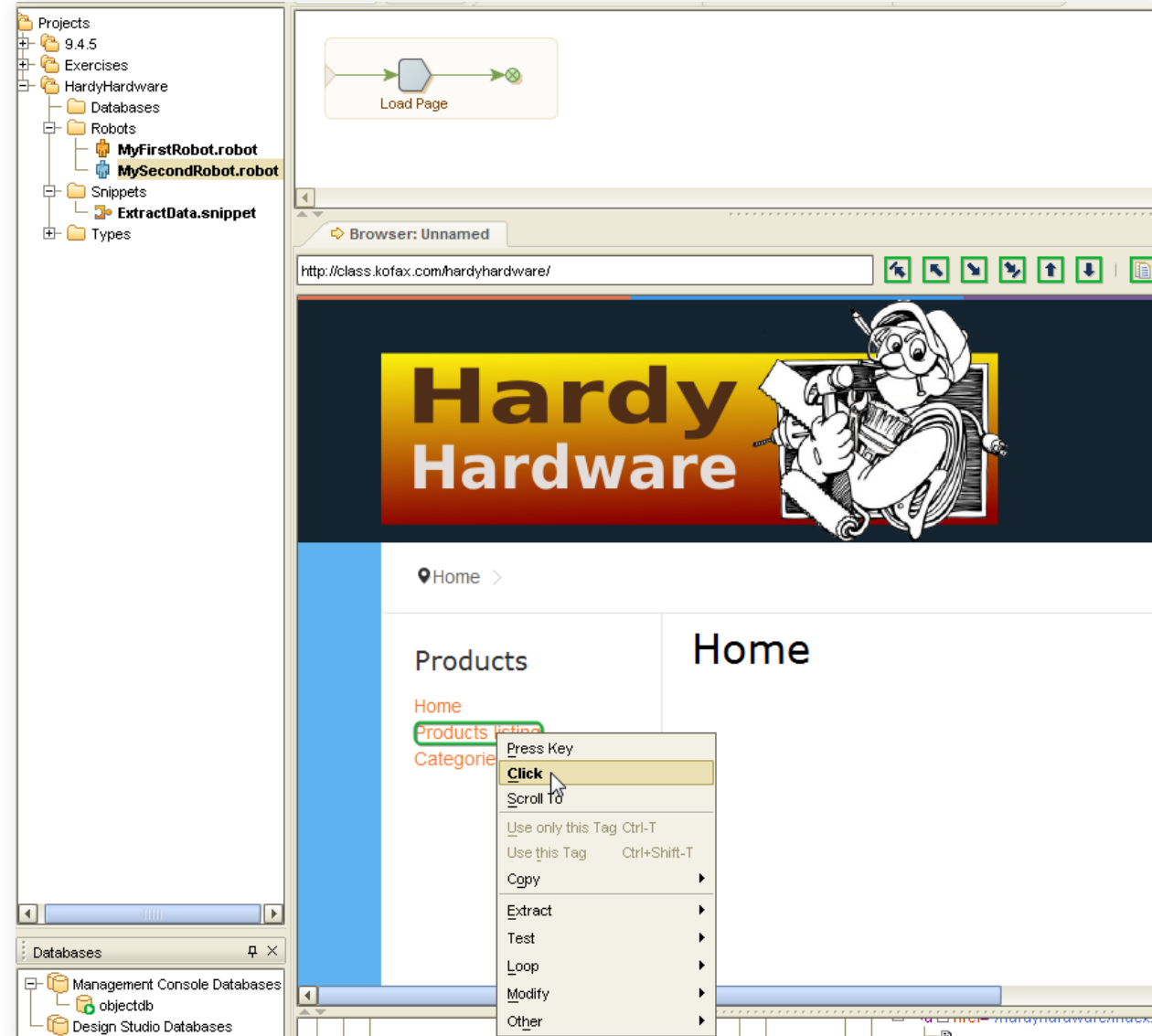
# Click Step Has Been Added

Notice that we are on the end step

Examine HTML Code for One Item. Compare it to Others

- Adding our Loop:

  - If we click on the first item on our page and begin expanding the code up using the ⬔ button, we'll eventually see that there is a class=hikashop_product tag that begins every item.

  - *NOTE: In this screen capture we've collapsed several tags in the HTML view to display the class tag we're going to use.*
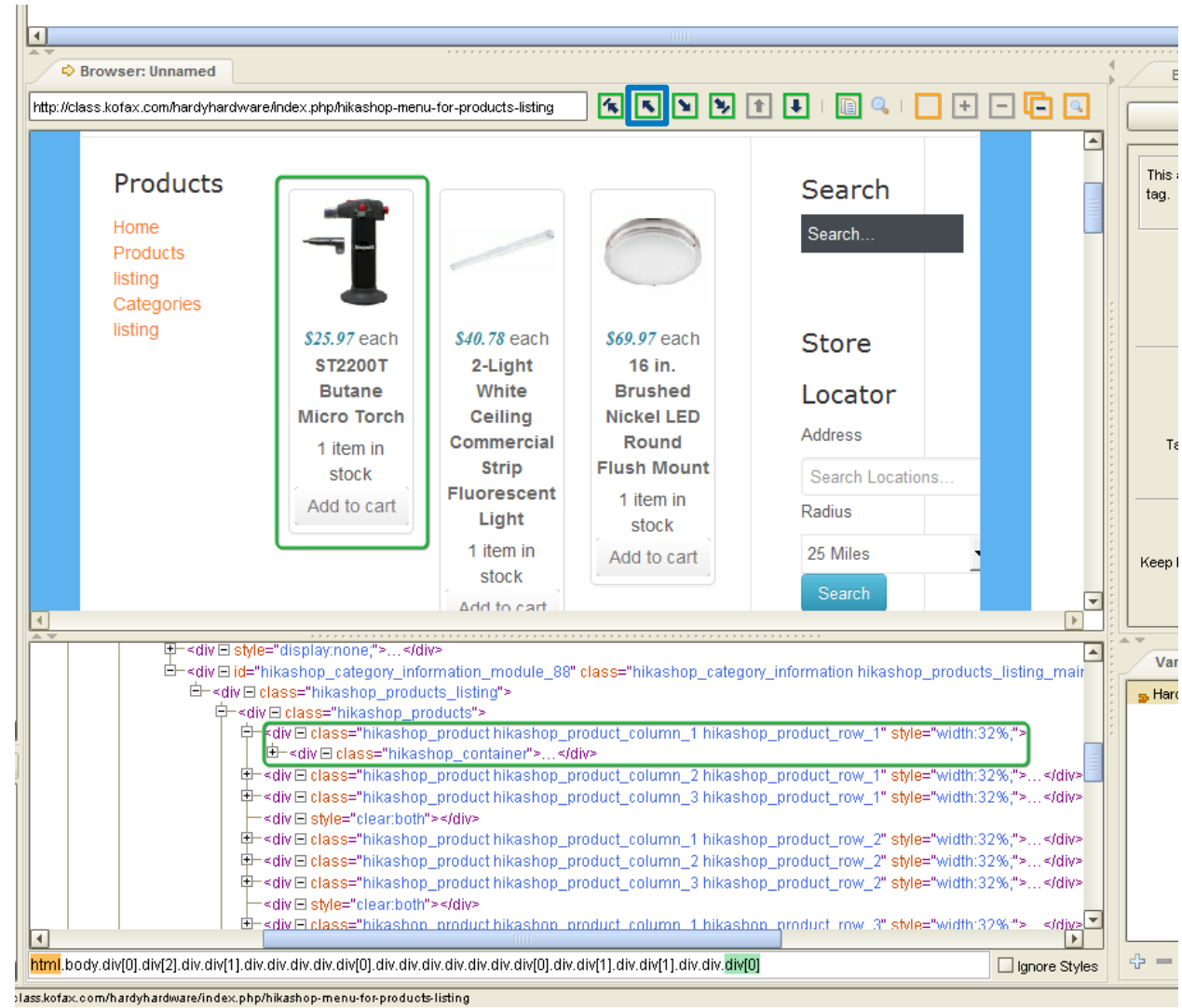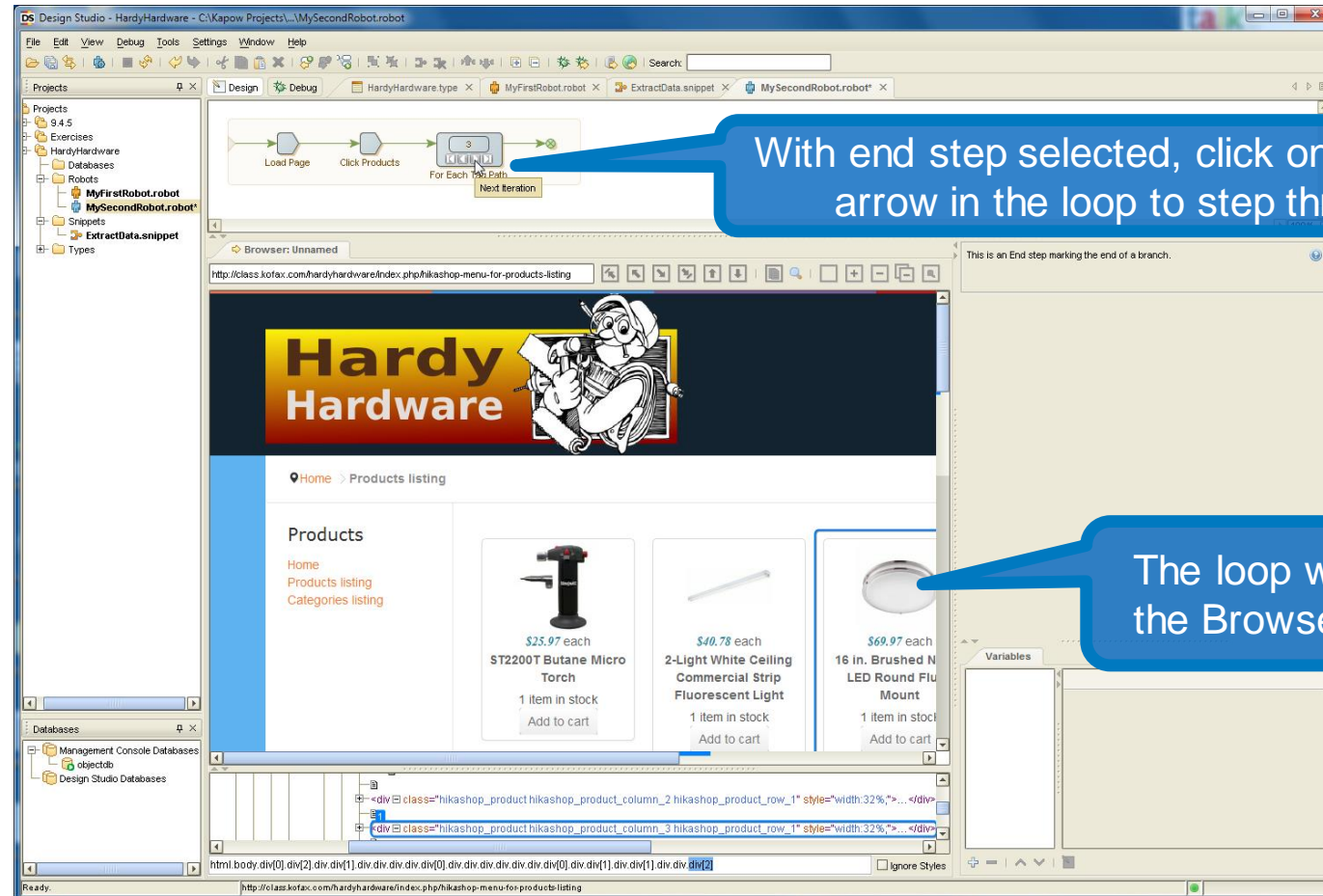
Loop for Tags With Class

♦ Right mouse-click the first tag and select Loop For Tags With Class. Then select hikashop_product. That tag is generic for every item on the page.
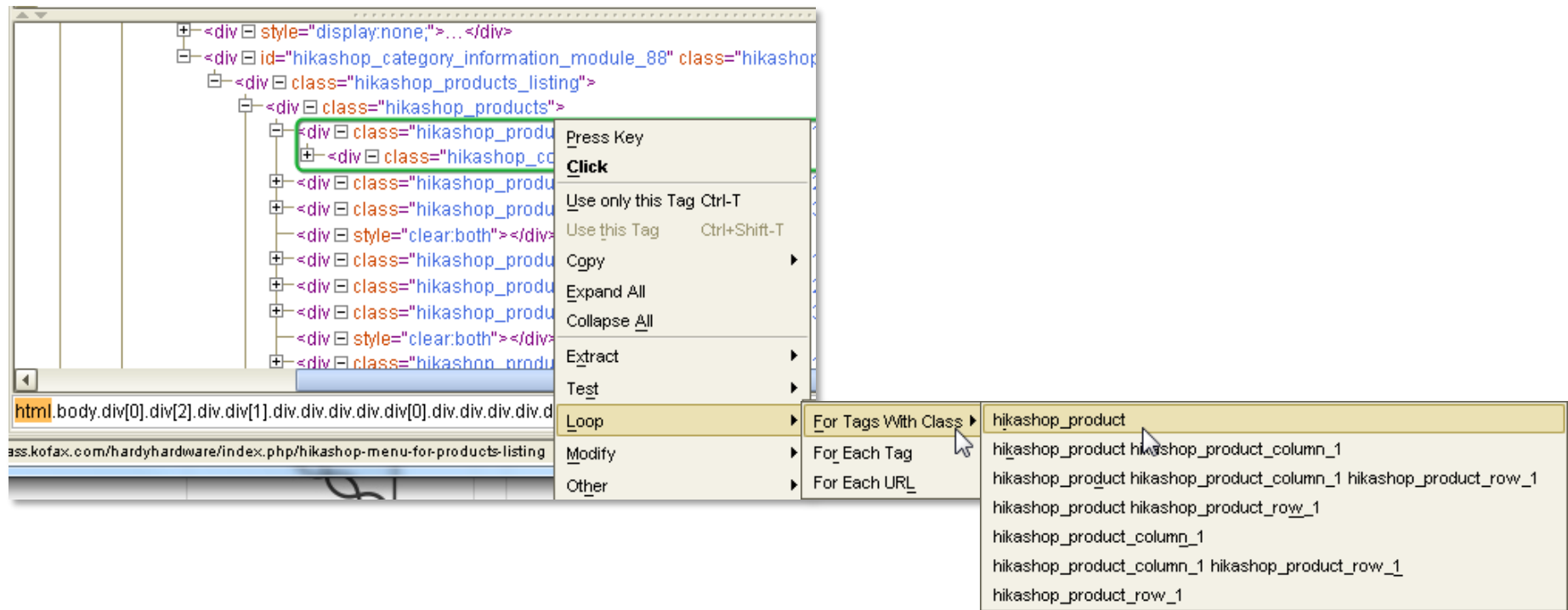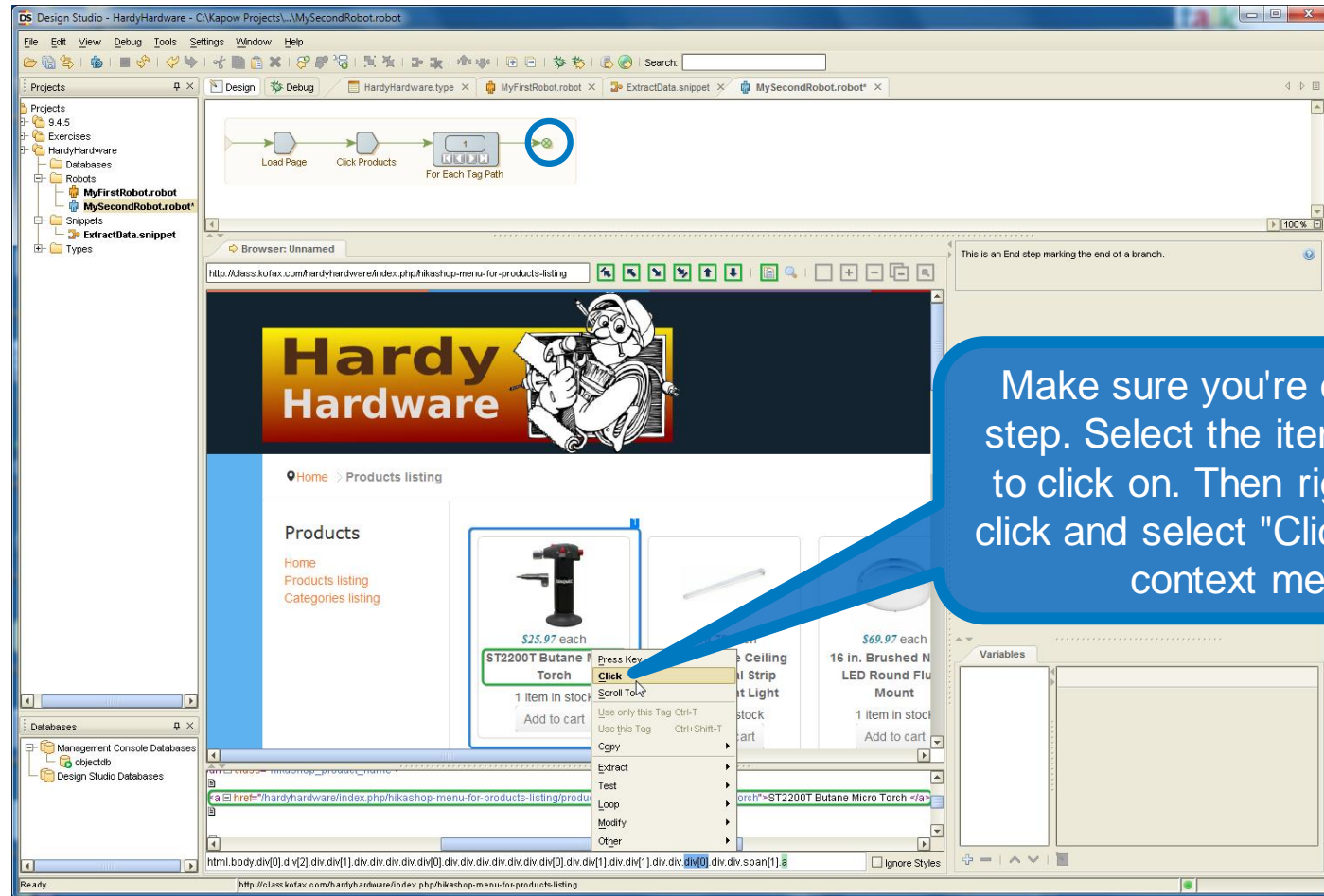
Click on End Step and Test Your Loop

◆ Remember, to see the results of a step, you have to go past that step (then, it will have already occurred).

With end step selected, click on the forward arrow in the loop to step through it.

The loop will run in the Browser panel.

Now We Want to Click on the Item

- Let's create a Click Action Step to select the item and bring up its details.

Make sure you're on the end step. Select the item you want to click on. Then right mouse-click and select "Click" from the context menu.

And Perform Extraction…But Wait…There's a Snippet for That!

◆ Now, we're going to add the Snippet we created in the last Robot. It will perform all the extraction steps for us.
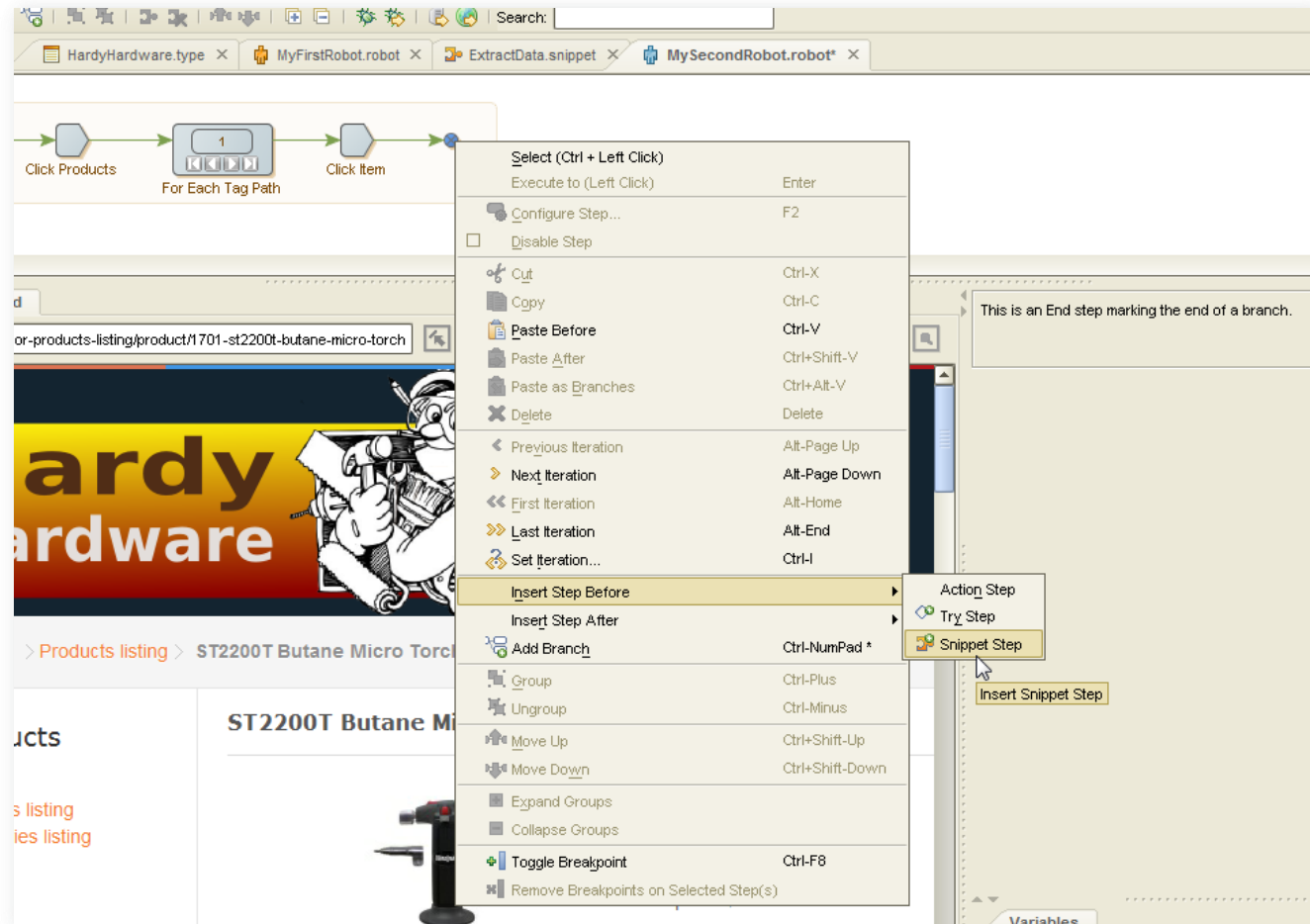
Snippet Added

◆ A Snippet has been added. On the Basic tab, we've given it a name: Extract Data. The Step Comment is optional.
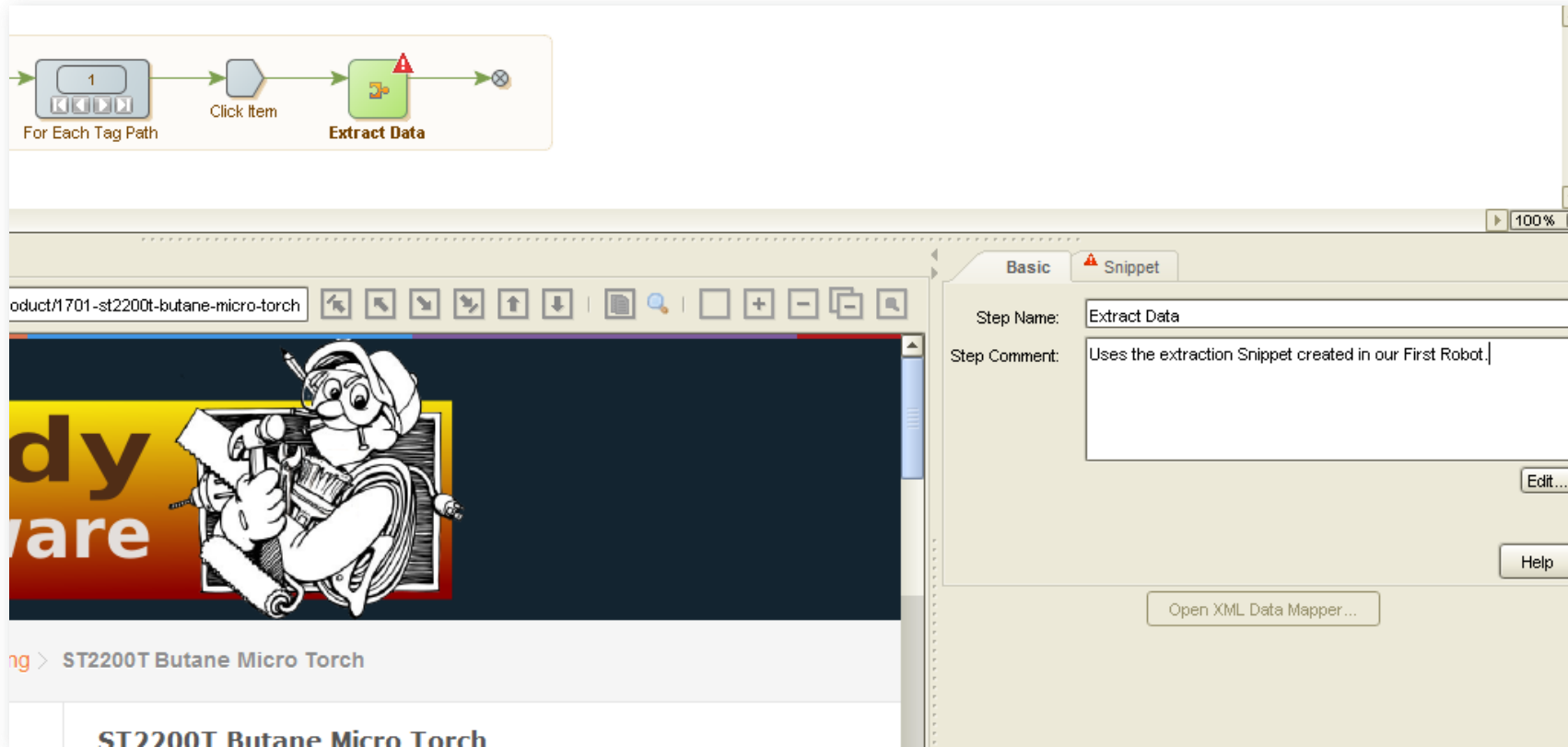
The Snippet Tab

- Then select the Snippet called ExtractData. This is the one you created earlier.

- NOTE: Snippets and Robots MUST use the same browser engine. If the engines (Default or Classic) are different, the Snippet will not be available from the list. Likewise, Snippets and Robots must belong to the same Project.

- When a Snippet is selected, you'll notice that the Variables come across with it.
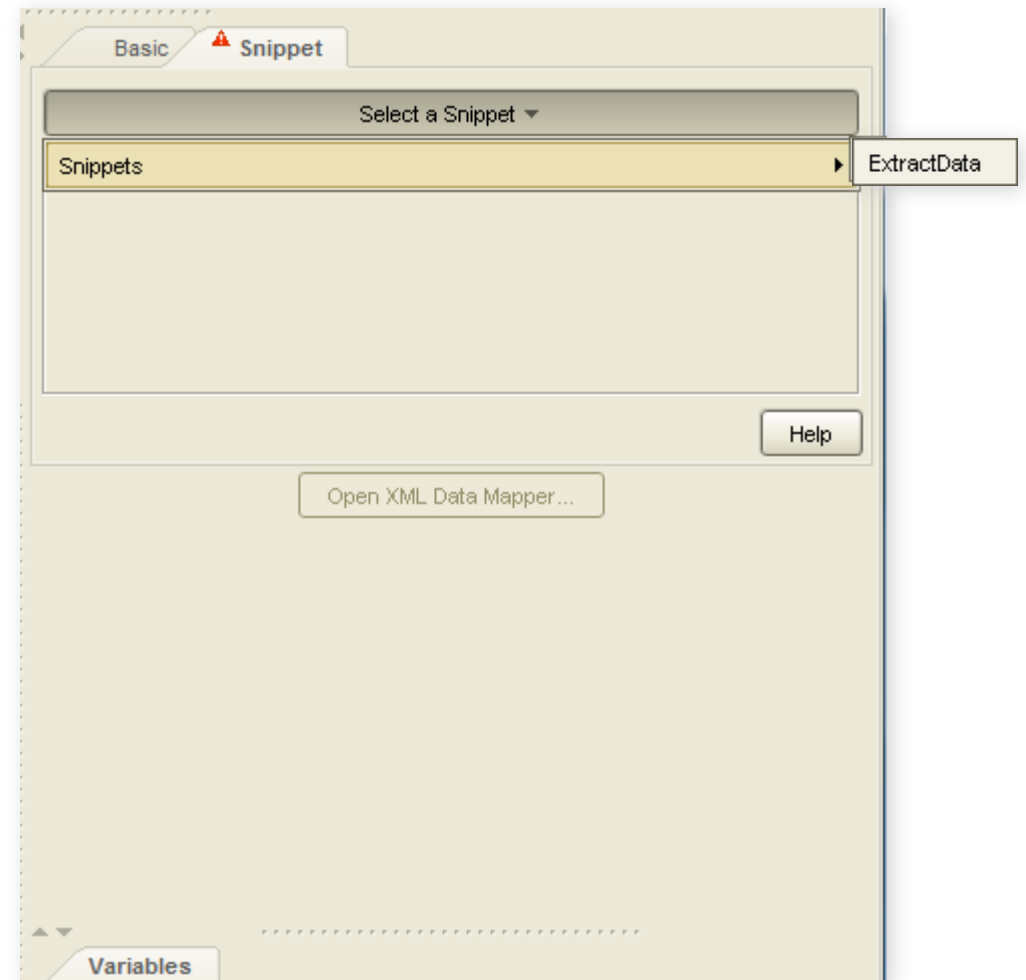
Finally, Let's Add a Return Data Step

The Return Value Step has been added. Notice the Variables extracted in the Variables panel.

Test the Robot in Design View

If we click on the forward arrow in our loop, we go to the second item and it's extracted results are displayed in the Variables panel.

Test in the Debugger

◆ **After saving our Robot, let's test in Debug Mode**
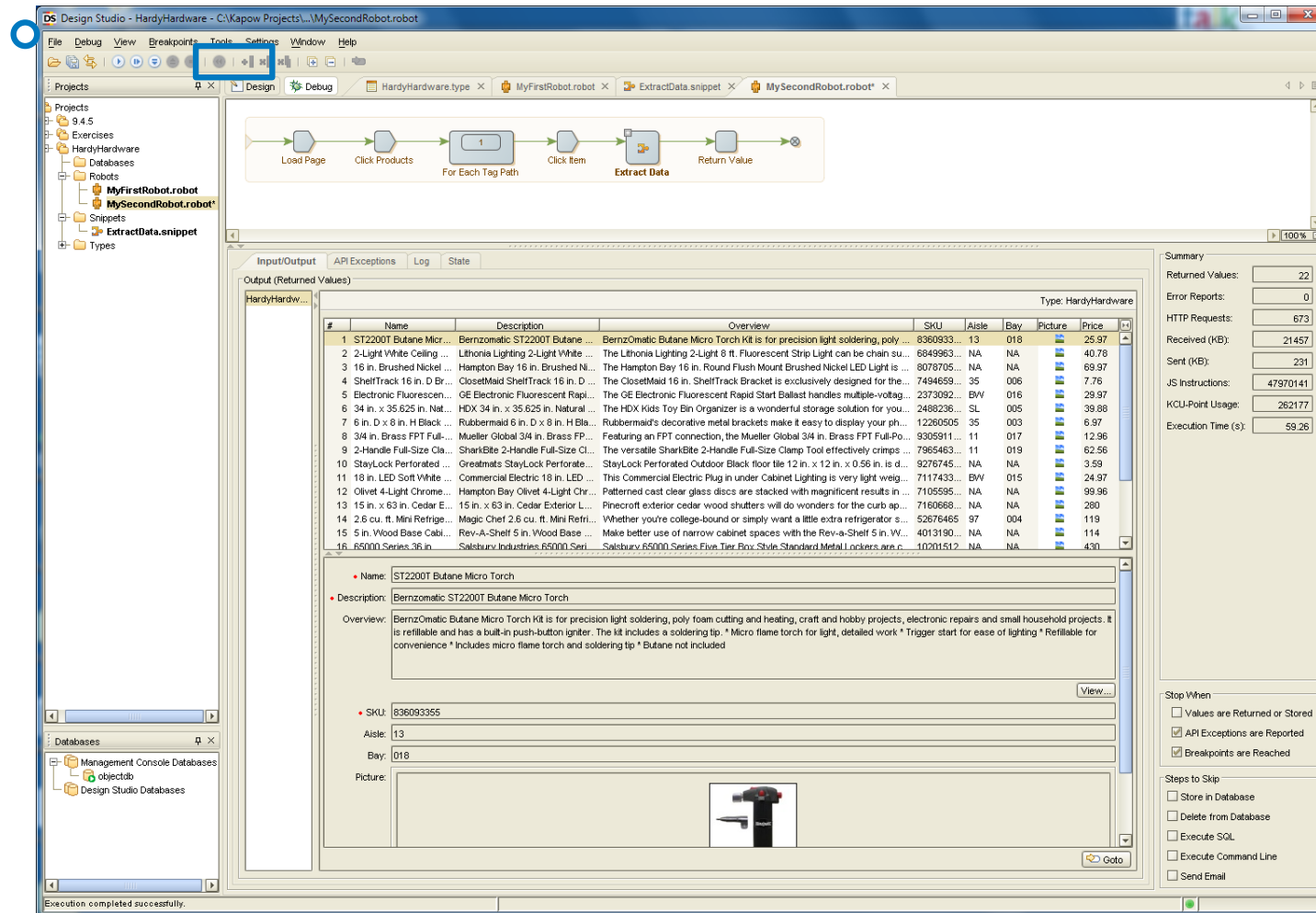
Demo & Lab

Setting up a basic loop step