**GROUP ISSUE #3: ISSUE 1261.**

**Feature Request: Include parentheses when tab completing functions**

**Description: Ipython, ptpython, and radian all use prompt-toolkit and all three do not include parentheses when completing functions**

***NOTE: You need to pip install keyboard in order to run the code and tests properly.***

The code before was not adding parentheses when the above functions where completed, but this code fixes that.

As we can see here, the function “print” gets parenthesis when tab completing it in the command prompt.

NOTE: An editable version of the prompt\_toolkit should be installed using the local version pulled from our github to be able to see the changes. To install an editable version, clone the repository and run the command **pip install -e <DIRECTORY FILE PATH>**. If the editable version is installed and a sample program importing the prompt\_toolkit is run correctly from the command line, it should look like the following:

A black screen with white text

Description automatically generated with low confidence

A black screen with white text

Description automatically generated with low confidence

The code here is the default, without the parentheses being added in…

A screen shot of a computer

Description automatically generated with low confidence

…and this is the code with the newly added move\_back\_one\_space function and the isFunction function added in. The function isFunction checks to see if dir and print are functions, which they are, and so it will add the parenthesis around them.

The programs that implement the toolkit (IPython, ptpython, radian) can change their function completer object to have this value (isFunction) be true which adds parenthesis to the end of the tab completed word

By pairing this fixing code with the previous issue’s move\_back\_one\_space function to put the cursor inside the parenthesis once the function is fully tab complete.

A screen shot of a computer

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A situation where you would want isFunction to be false could be in a variable name completer.

Finally, here is the code where the function isFunction gets set a Boolean value.

A screen shot of a computer program

Description automatically generated with low confidence

So overall, we can now use the toolkit to get parenthesis within the important functions in the program with tab completion.!