Revised Project 1.1.6 Chatting with Magpie

Part 2

Subtarget 2.1: Extend the functionality of Magpie chatbot while exploring concepts in Natural Language Processing using Java classes and String methods.

1. Complete Magpie Student Guide Activity 2: Introduction to the Magpie Class. This file is located in our folder for this project. Open it up and follow along. I’ll only expect written responses on these pages, but you do need to follow the activities on the AP Student Guide as part of these activities. As you complete the exercises, the guide will pose questions. Record your answers below.
   1. Copy or extract the project files in 1.1.6MagpieActivity2\_StarterCode\_BlueJ to your BlueJProjects folder. Open the project in BlueJ and compile.
   2. Answer questions from the activity here. How does it respond to:
      * My mother and I talked last night.

Tell me more about your family.

* + - I said no!

Why so negative?

* + - The weather is nice.

You don’t say.

* + - Do you know my brother?

Why so negative?

* 1. Complete the **Exploration**.

(Here’s a link to the interactive Python tutorial on Activity 2:

<http://interactivepython.org/runestone/static/JavaReview/Labs/magpie2.html>)

* 1. Complete the **Exercises**, altering your code as instructed. Fill in the keywords and responses below.

|  |  |
| --- | --- |
| Keyword | Response |
| no! | Why so negative? |
| mother/brother/father/sister | Tell me more about your family. |
| Dog/cat | Tell me more about your pets. |
| Mr./Ms./Mrs./teacher | That teacher sounds nice. |

* 1. What happens when more than one keyword appears in another word? Consider the string “My mother has a daughter but no cat periods”. Explain how to prioritize responses in the reply method.

It goes down the list, and the first set of conditions that the string works with, runs.

* 1. What happens when a keyword is included in another word? Consider the string “I know all the state capitals” and “I like vegetables smothered in cheese”. Explain the problem with the responses to these statements.

It doesn’t matter if the keyword is included in another word, since it’s there, the program runs the response that works with the inscribed keyword. This is a problem because the program is too rigid to be theoretically useful without editing.

When you’re finished, see if anyone needs guidance, or enjoy checking out how other people’s chatbots respond when you chat with it. Then see me.