Revised Project 1.1.6 Chatting with Magpie

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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 |
| 1' OR '1' = '1  1 OR 1 = 1  1” OR ”1” = “1 | Please don’t inject me. |
| How are you  What’s up | I am doing well, how are you? |
| I am (…) well  I am (…) good | Glad to hear |
| where are you from? | From far, far, away |

* 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.

When one than more keyword appears, the “if” statement that comes first in the code is the one that is prioritized. One way to get around this would be to use the “if” statement rather than “else if” and at the end of the method check which ones were true and construct a response based on that.

* 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 is possible to put a space before or after the word. For example “ no” instead of “no”, or “ mother “ instead of “mother”.

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.