Revised Project 1.1.6 Chatting with Magpie

Part 3

1. Complete Magpie Student Guide Activity 3: Better Keyword Detection.
   1. Copy or extract the project files in 1.1.6MagpieActivity3\_StarterCode\_BlueJ to your BlueJProjects folder. Open the project in BlueJ and compile.
   2. Work through the section titled **Exploration: Using the API**.
   3. Work through the section titled **Exploration: Understand the new method** and run it using the two statements in the previous step 3f.
   4. As instructed in the guide, read through the findKeyword method and trace the following method call:   
      findKeyword("She's my sister", "sister", 0);

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | psn | before | after |
| 1 | 9 | ” ” | ” ” |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

* 1. Trace: findKeyword("Brother Tom is helpful", "brother", 0);

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | psn | before | after |
| 1 | 0 | ” ” | ” ” |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

* 1. Trace: findKeyword("I can't catch wild cats.", "cat", 0);

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | psn | before | after |
| 1 | 8 | ” ” | ”c” |
| 2 | 19 | ” ” | ”s” |
|  |  |  |  |
|  |  |  |  |

* 1. Trace: findKeyword("I know nothing about snow plows.", "no", 0);

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | psn | before | after |
| 1 | 3 | ”k” | ”w” |
| 2 | 7 | ” ” | ”t” |
| 3 | 22 | ”s” | ”w” |
|  |  |  |  |

* 1. Complete **Exercise: Use the new method** to implement the more “intelligent” algorithm when responding to questions about pets and your teacher’s name.
  2. **Prepare for the next activity** according to the Student Guide.

1. Complete Magpie Student Guide Activity 4: Responses that Transform Statements.
   1. Copy or extract the project files in 1.1.6MagpieActivity4\_StarterCode\_BlueJ to your BlueJProjects folder. Open the project in BlueJ and compile.
   2. Following the guide, use a statement like, “I want to have pizza for lunch”, substituting your favorite food for “pizza”.
   3. Complete the activity according to the Student Guide.
   4. Explain your improvement to the algorithm.

When you’ve gotten this far, there are a few ways to go:

1. Make it so it wins the Turing Contests.

2. Make it so it can talk with another chatbot.

3. Getting it running on an Android Device or emulator. If you want to try this option and you installed Android Studio on your laptop, let me know.

4. Learn how to use Arrays or ArrayLists.