**Magpie Chatbot Lab: Student Guide**

**Activity 4: Responses that Transform Statements**

As stated previously, single keywords are interesting, but better chatbots look for groups of words. Statements like “I like cats,” “I like math class,” and “I like Spain” all have the form “I like *something*.” The response could be “What do you like about *something*?” This activity will respond to groupings of words.

**Prepare**

Have available:

* the code for the Magpie4.java and MagpieRunner4.java
* the API for the String class
* a computer with your Java development tools

Create a project and folder for your files named LastnameMagpieFour

Name your copy of this word document LastnameMagpieChatbotFour.docx.

**Exploration**

Get to know the revised Magpie class. Run it. How does it respond to:

* I want to build a robot. \_What would it mean to build a robot?
* I want to understand French. \_What would it mean to understand French?
* Do you like me? \_What makes you think that I like you?
* You confuse me.  \_What makes you think that I confuse you?

=> Be sure to place your answer in each of the above underline areas.

**Exercises**  Look at the code. See how it handles “I want to” and you/me statements.

Alter the code:

• Have it respond to “I want *something*” statements with “Would you really be happy if you had *something*?” In doing this, you need to be careful about where you place the check. Be sure you understand why. For example:

Statement: I want fried chicken.

Response: Would you really be happy if you had fried chicken?

• Have it respond to statements of the form “I *something* you” with the restructuring “Why do you *something* me?” For example:

Statement: I like you.

Response: Why do you like me?

Find an example of when this structure does not work well. How can you improve it?

\_I would like for you to respond correctly. You could make magpie respond to a command form by checking for would, or for.\_

Zip your project and submit in Edmodo along with your Magpie Chatbot word document in the Magpie Chatbot Four assignment.