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**Magpie Chatbot Lab**

**Directions**: Make note of your responses to the following questions as you work through activities 4 and 5 of the AP Computer Science Lab Student Guide: Magpie.

# **Activity 4**

1. In the Exploration section, how does the Magpie chatbot 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? |

1. After altering the code, test the code by chatting with Magpie. Test statements in the form of "I want to *something*", "I want *something*", "you *something* me", and "I *something* you". Paste your conversation below.

I like you.

Why do you like me?

I want to go flying.

What would it mean to go flying?

I want some candy.

Would you really be happy if you had some candy?

You mean a lot to me.

What makes you think that I mean a lot to you?

I like you.

Why do you like me?

1. When altering the code, why did you need to be careful about where you place the check for "I want *something*" statements? Use the samples to determine your answer.

Since they needed two different commands, if they were placed with the rest of the stream it would not have functioned as intended.

# **Activity 5**

1. Imagine you were to interview an end user and ask them to compare the version of the program before the array was added to getRandomResponse and the version after. What might they say?

If the program was properly executed as instructed, the end user should not be able to tell the difference.

1. Now interview the programmer for the code. How might he/she compare and contrast the two programs? Are the end users and programmers’ responses similar? Why?

The programmer would say they like this version of the program is better since not only is it simpler, it’s much easier to tell what the purpose of the program is with a chick glance. Well they would both certainly agree that they end up having the same output, just different code to implement it.