Name: Paul Chafetz  
Date: 3/31/2019

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 want to run. | What would it mean to run? |
| I want a car. | Would you really be happy if you had a car? |
| You hate me. | What makes you think that I hate 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.

I had to be careful because of the “I want to” statement. In the if-statement, Java must check “I want to” before it checks “I want” or else the “I want to” statement would never be used. In my case, the program would reply with “Would you really be happy if you had” if I said either “I want to run” or “I want a car” which is not what we want.

# 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?

They would say that they noticed no difference in the program’s functionality. From the user’s perspective, the end result is the same and the process behind-the-scenes is irrelevant to their purpose.

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

The programmer would say that the end result is the same but the process to get there is different. He or she would realize that the getRandomResponse method is coded differently, one using if-statements and the other using an array of responses. Their responses are not completely similar. While it is true that they both acknowledge that the end result is the same, the programmer, being knowledgeable in coding languages, also recognizes the difference in the process within the program.