**AP Computer Science- Magpie Case Study**

**Activity # 1 - Explore Chatbots**

**Activity # 2 - Introduction to Magpie Class**

Code Magpie2 to respond to the following inputs with the following responses:

|  |  |
| --- | --- |
| User Input | Magpie Response |
| dog, cat | Tell me more about your pets. |
| teacher names (gender specific) | He sounds like a good teacher.She sounds like a good teacher. |
| Empty input | Say something please. |
| Unrecognized input | Add two additional noncommittal statements. |
| 3 custom keywords (you choose) | 3 custom responses (you choose) |

**Activity # 3 - Better Keyword Detection**

Fill in the tables below for the method call findKeyword(statement, goal);

*statement* = "My cardiac arrest was due to discarding postcards from the cardinal." *goal* = "card"

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | psn | before | after |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |

*statement* = "The unicron's scorn was immense when the corn's husk hit his cornea." *goal* = "corn".

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | psn | before | after |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |

*statement* = "The student identified the car's dent was from the president's resplendent trident." *goal* = "dent".

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | psn | before | after |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |

**Activity # 4 - Responses that Transform Statements**

Alter the code so that Magpie will response using a user provided keyword.

|  |  |
| --- | --- |
| User Input | Magpie Response |
| I want *something* | Would you really be happy if you had *something*? |
| I *something* you. | Why do you *something* me? |

Example:

User input: I want bacon. Magpie responds with: Would you really be happy if you had bacon?

User input: I hate you. Magpie responds with: Why do you hate me?

**Activity # 5 - Array and the Magpie**

Simply add four additions to the array of random responses.