victoryforphil / compsci-2018-lessons

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victoryforphil Mag Pie Done 0313d3a 2 minutes ago

1 contributor

125 lines (118 sloc) 2.64 KB

```
1  /**
2   * A program to carry on conversations with a human user.
3   * This is the initial version that:
4   * <ul><li>
5   *       Uses indexOf to find strings
6   * </li><li>
7   *                Handles responding to simple words and phrases
8   * </li></ul>
9   * This version uses a nested if to handle default responses.
10  * @author Laurie White
11  * @version April 2012
12  */
13 public class Magpie2
14 {
15        /**
16         * Get a default greeting
17         * @return a greeting
18         */
19        public String getGreeting()
20        {
21                return "Hello, let's talk.";
22        }
23
24        /**
25         * Gives a response to a user statement
26         *
27         * @param statement
28         *            the user statement
29         * @return a response based on the rules given
30         */
31        public String getResponse(String statement)
32        {
33                String response = "";
34
35                if(response.trim().length() <= 0){
36                        return "Say something please.";
37                }
38
39                if (statement.indexOf("no") >= 0)
40                {
41                        response = "Why so negative?";
42                }
43                else if (statement.indexOf("mother") >= 0
44                                || statement.indexOf("father") >= 0
45                                || statement.indexOf("sister") >= 0
46                                || statement.indexOf("brother") >= 0)
47                {
48                        response = "Tell me more about your family.";
49                }
50                else if (statement.indexOf("dog") >= 0
51                                || statement.indexOf("cat") >= 0)
52                {
53                        response = "Tell me more about your pets.";
54                }
55                else if (statement.indexOf("swing") >= 0)
```

```
                {
                        response = "She sounds greeeaaaatttttt!";
                }
                else if (statement.indexOf("robotics") >= 0)
                {
                        response = "WHO ARE WE? 4RP!!!";
                }
                else if (statement.indexOf("gths") >= 0)
                {
                        response = "why is asb so mean :(";
                }
                else if (statement.indexOf("java") >= 0)
                {
                        response = "Why u take my ram!";
                }
                else
                {
                        response = getRandomResponse();
                }
                return response;
        }

        /**
         * Pick a default response to use if nothing else fits.
         * @return a non-committal string
         */
        private String getRandomResponse()
        {
                final int NUMBER_OF_RESPONSES = 7;
                double r = Math.random();
                int whichResponse = (int)(r * NUMBER_OF_RESPONSES);
                String response = "";

                if (whichResponse == 0)
                {
                        response = "Interesting, tell me more.";
                }
                else if (whichResponse == 1)
                {
                        response = "Hmmm.";
                }
                else if (whichResponse == 2)
                {
                        response = "Do you really think so?";
                }
                else if (whichResponse == 3)
                {
                        response = "You don't say.";
                }
                else if (whichResponse == 4)
                {
                        response = "Much wow. Such intrest.";
                }
                else if (whichResponse == 5)
                {
                        response = "K.";
                }
                else if (whichResponse == 6)
                {
                        response = "Thank you Kayne. Very cool!";
                }


                return response;
        }
}
//QUESTIONS
```

```
123  /*
124  1) It will reply to the first word it locates in the sentence, example Know will reply with the No response. This is due to the fact index
125   */
```