Magpie Project Task #3 Better Keyword Detection

1. Read the API for the String class. What value is returned by `indexOf` if the substring does not occur in the string?
-1

2. Provide a screen shot here of the updates made to the `StringExplorer` class that uses both versions of the `indexOf` method. Provide screen shots of the code and evidence that your chatbot responds as intended.

3. Experiment with code as directed in the Exploration Section of Activity 3. Complete the table below to demonstrate you can trace the code.

findKeyword("I know nothing about snow plows", "no", 0);

Iteration	psn	before	after
1	3	'k'	'w'
2	7	' '	't'
3	20	's'	'w'

4. Complete the code changes detailed in the Exercises section of Activity 3. Provide enough screen shots to show you made all the changes and your chatbot responds as intended.

1. The following changes would have been made:
2. Have it respond to "Tell me more about your pets."
3. Have it respond favorably when it sees the name of your teacher.

50-59%	60-69%	70-79%	80-89%	90-100%
At least one of the modifications were attempted. Chart has no	Less than half of the modifications were attempted. Chart has	Most modifications were attempted. Chart has most of the entries.	All required modifications were attempted. Chart is	All required modifications were made as directed. Chart

correct entries.	some correct entries.		complete and mostly correct.	is correct, thorough and complete.

4. Have the code check that the statement has a least one character.
5. Add a two noncommittal response to the random responses.
6. Pick three more keywords to add to the `getResponse` method.

```java
final int NUMBER_OF_RESPONSES = 6;
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 = "Okay then.";
} else if (whichResponse == 5) {
    response = "I see, I see.";
}

return response;
```