

## 12.09 Assignment Instructions

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**Instructions:** Work through Activity 1, 2, and 3 of the Magpie Chatbot Lab found in this lesson. The files needed and details for completing each item below can be found in the lesson.

After all activities are completed, the following will be completed:

1. Converse with a chatbot and note observations in the worksheet.
2. Refresh and discover String methods. Modify the StringExplorer.java class to include examples with your own phrase and demonstrations of the following methods:
  - trim()
  - length()
  - indexOf with one and two parameters
  - substring() with one and two parameters
  - compareTo()
  - any additional String methods
3. Explore the Magpie class. Complete the Activity 2 questions in the worksheet.
4. Modify the Magpie class code to do the following:
  - Respond if a pet is mentioned.
  - Respond when your teacher's name is mentioned.
  - Employ the trim method and respond if there are no characters in the statement.
  - Add two general noncommittal responses to the random responses.
  - Pick three keywords, such as "no" and "brother," and edit getResponse.
5. After completing Activity 3, in the worksheet, record the values associated with tracing through calls to the `findKeyword` method.
6. Modify the Magpie class to use the `findKeyword` method in the `getResponse` method.