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Ap computer science a magpie chatbot lab answers

Magpie This repository has been archived by the owner. Now it's read-only. AP java chatbot lab You cannot perform such an action at this time. You're signed in with another tab or window. Reload to update the session. You have registered in another tab or window. Reload to update the session. This book is now obsolete Please use CSAwesome instead. You attempted activities on this AP® Computer Science Page A Magpie Chatbot Lab Student Guide The AP program wants to recognize and thank Laurie White of Mercer University, who developed this lab and accompanying documentation. Magpie Chatbot Lab: Student Guide Introduction From Eliza in the 1960s in Siri and Watson today, the idea of talking to computers in natural language fascinated people. Increasingly, computer programs allow people to interact with them by typing English phrases. The field of computer science that addresses how computers can understand human language is called Natural Language Processing (NLP). NLP is a field that attempts to make computers understand natural (i.e. human) language. There are many exciting discoveries in the field. While nlp is a complicated field, it is quite easy to create a simple program to respond to English phrases. For this lab, you'll explore some of the basics of GNP. As you explore this topic, you will use a variety of methods of the String class and practice using the if statement. You will trace a complicated method to find words in user input. Activity 1: Knowing chatbots (optional) They are programs designed to respond like humans to natural language input. Before you write code to create your chatbot, you'll explore some existing chatbots. Start Go to . Try many of the chatbots and find one to use for this task. Your teacher may have a specific list of chatbots to try. Browsing Having several chatbot conversations and answering the following questions: □ How does it respond to where you come from? □ What is the most interesting answer? □ What is the most particular answer? □ How do you respond to asdfghjkl? Exercises Work with another group and have two different chatbots converse with each other. Simple chatbot questions act by searching for keywords or key phrases and answering them. 1. Can you identify the keywords your chatbot responds to? 2. Think about different keywords and the answers they might cause. Activity 2: Introduction to the Gazza class In this task, you will work Magpie, with a simple implementation of a chatbot. You'll see how it works with some keywords and add your own keywords. Prepare Have available: □ the code for the Magpie □ the for MagpieRunner □ a computer with your Java Start development tools Know the Magpie class. Executed, using the provided by your teacher. As he replies: □ My mother and I spoke last night. □ I said no! □ The weather is nice. □ Do you know my brother? Navigation Look at the code. See how the if statement assigns a value to the response and returns that response. The getRandomResponse method chooses a response from a group of String objects. Exercises Alter the code: □ Get him to answer Tell me more about your pets when the statement contains the word dog or cat. For example, a possible statement and answer would be: Statement: I like my cat Mittens. Answer: Tell me more about your pets. □ Make her respond favorably when she sees your teacher's name. Make sure you use appropriate pronouns! For example, a possible statement and answer would be: Statement: Mr. Finkelstein is telling us about robotics. Answer: He looks like a good teacher. □ Ensure that the code checks that the statement has at least one character. You can do this by using the trim method to remove spaces from the beginning and end, and then checking the length of the cut string. If there are no characters, the answer should include the user to enter something. For example, a possible statement and answer would be: Statement: Answer: Say something, please. □ Add two more non-binding responses to possible random responses. □ Choose three other keywords, such as no and brother, and change the getResponse method to respond to each keyword. Enter the following three keywords and answers. Keyword response □ What happens when multiple keywords appear in a string? Consider the string My mother has a dog but no cat. Explain how to prioritize responses in the response method. Question No 1. What happens when a keyword is included in another word? Consider statements like I know all the capitals of the state and I like vegetables suffocated in cheese. Explain the problem with the answers to these statements. Page 2 These are the countries currently available for verification, with more to come! United States Canada Mexico South Africa China Israel Japan South Korea Australia New Zealand Argentina Brazil Chile Venezuela

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