SKETCH & GUESS: PART 4

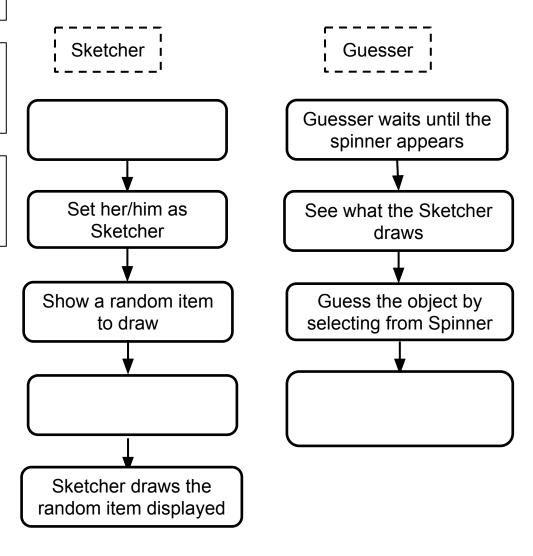
In Part 4, you will add answer-checking to the sketching app.

SEQUENCE OF EVENTS

In previous lessons, you built a Sketch and Guess app.

Review with your partner the diagram below. Fill in the empty spaces with A, B, or C.

- A. Check whether the selected answer is correct
 - B. Store the randomly selected drawing item in CloudDB
 - C. Sketcher presses
 Start Game button





CLOUDDB TAGS

The Sketcher needs to send the correct answer to the Guesser so the Guesser can check if their guess is correct. You'll do this by storing the correct answer in CloudDB using a new tag, "CurrentDrawing".

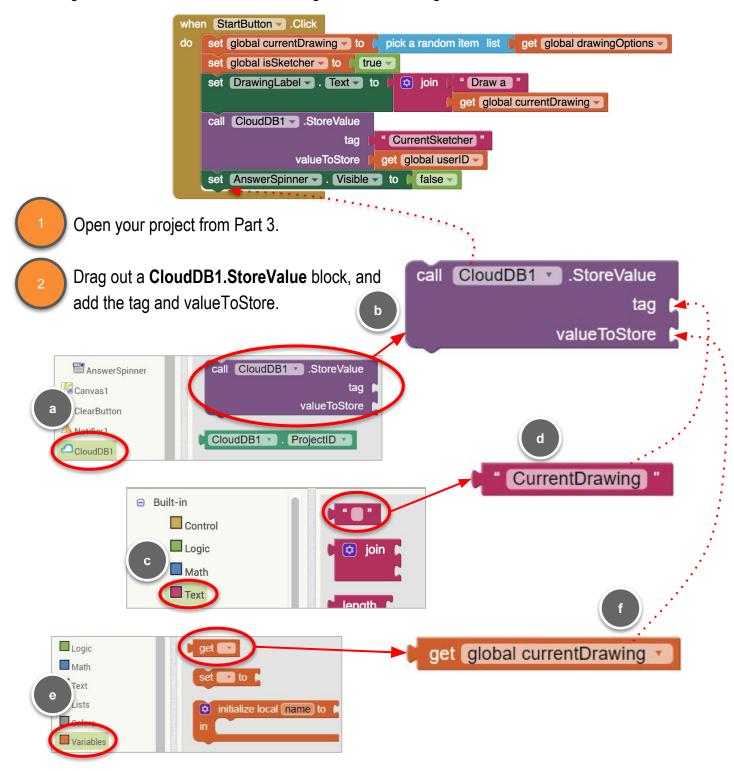
See the table below for the tags that are used in this app.

Tags	Meaning	Sketcher	Guesser
" DrawingData "	The start point and end point for drawing	Store the coordinates of drawing	Get the coordinates of drawing
" CurrentSketcher "	Who is the Sketcher	Store their userID	Get the Sketcher's userID
" CurrentDrawing "	What is being drawn	Store the randomly generated item to draw	Get the item being drawn for answer checking



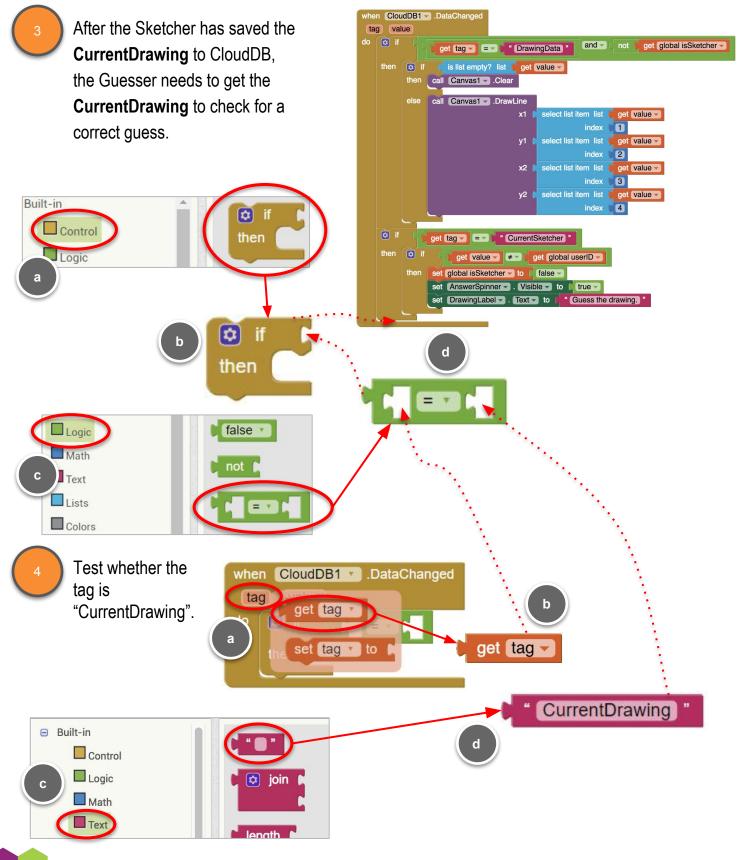
STORE CURRENT DRAWING

When the Sketcher clicks the Start button, you need to store the randomly generated drawing item to CloudDB. You'll use the tag, "CurrentDrawing".





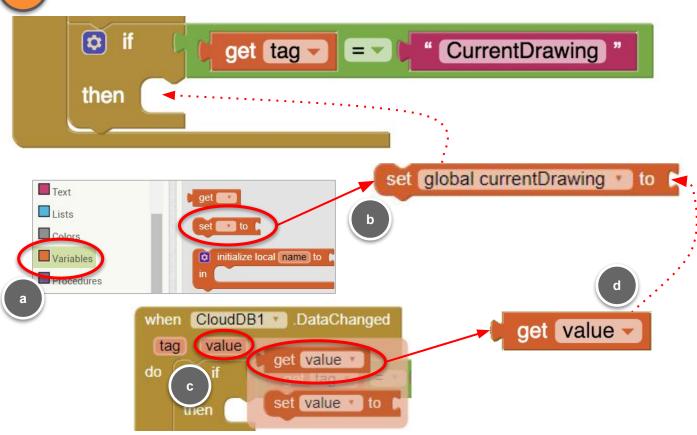
GET CURRENTDRAWING FOR THE GUESSER



APP INVENTOR

SET THE ANSWER FOR CHECKING

Set the currentDrawing variable to the value received from CloudDB.



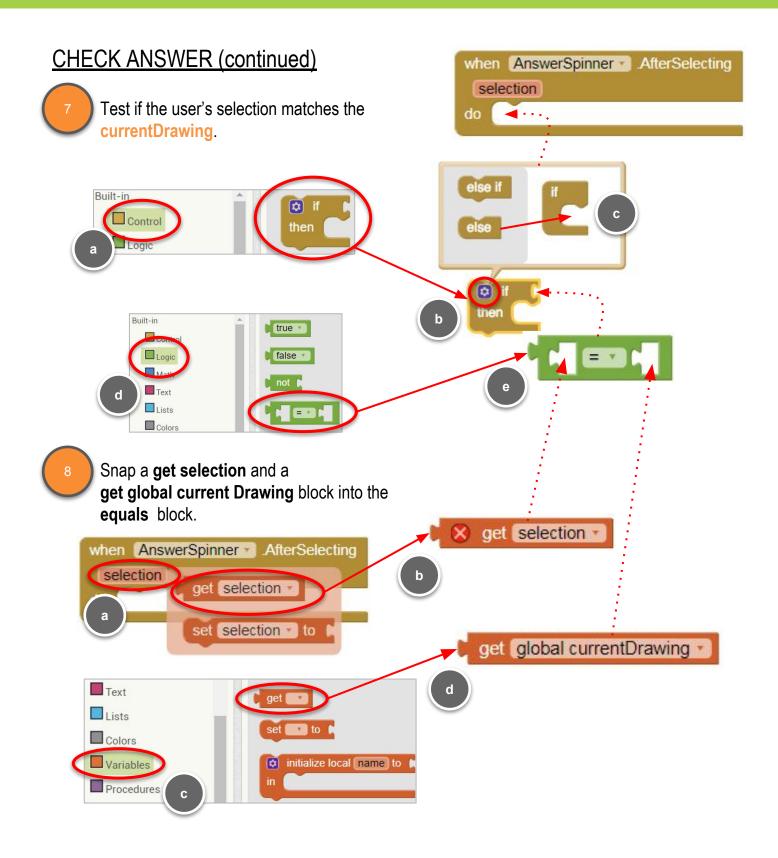
CHECK ANSWER

APP INVENTOR

Check if the answer that the Guesser selects from the **AnswerSpinner** is correct, and notify the user.

Check the answer in the **AnswerSpinner.AfterSelecting** block.

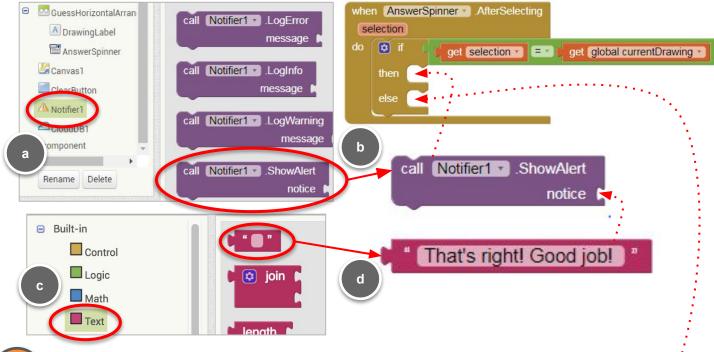






CHECK ANSWER (continued)

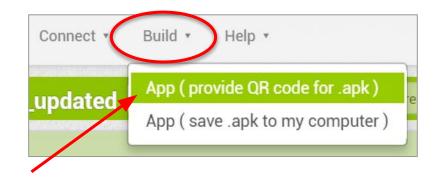
Drag out a **Notifier1.ShowAlert** block and set the messages. If the user's selection in the **AnswerSpinner** matches **currentDrawing**, notify the user that they are correct: "That's right! Good job!"; otherwise, notify user "Oh no! Try again!".



Duplicate the **Notifier1.ShowAlert** block, change the text block to "Oh no! Try again!,, and add it as the else clause of the **if-then-else** block.

```
call Notifier1 .ShowAlert
notice Oh no! Try again! "
```

Test with your partner. Build the apk using the QR code option, scan the QR code and download and install the apk on your individual devices.





Choose Ways to Extend Your App

Here are a few features you could add if you want to expand your app



Add
TextToSpeech to
speak what is to
be drawn

Add notification to all users if someone guesses correctly

Keep score!
Each player can keep track of their correct guesses!

What other ideas do you have?



COMPUTATIONAL THINKING CONCEPTS

```
Sketch And Guess Part 4
1. Events
                    when AnswerSpinner AfterSelecting
                      selection
                    do
2. Conditionals
                    .
                                🗶 get tag = 💷
                                                   * CurrentDrawing
                          set global currentDrawing to

  get value

                    $
                                                          get_global currentDrawing *
                                   get selection -
                          call Notifier1 . ShowAlert
                    then
                                                       That's right! Good job!
                                             notice
                    else
                          call Notifier1 .ShowAlert
                                             notice
                                                       Oh no! Try again!
3. Naming / variables
                           get tag = ==
                                           " CurrentDrawing
4. Manipulation of data and elementary data structures
                   call CloudDB1 . StoreValue
                                                  CurrentDrawing **
                                  valueToStore
                                                 get_global currentDrawing
```

