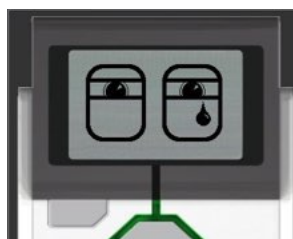
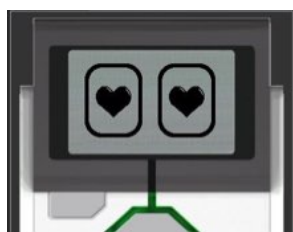


## PROGRAMMING CHALLENGE:

In this lesson, we will help GRIPP3R get his toy back. GRIPP3R will drop his toy, cry, and will display a sad face. When you wave in front of his Infrared sensor, and then give him this toy, he will lift it up and show a happy face and say "thank you". He will say "good bye" and turn away.



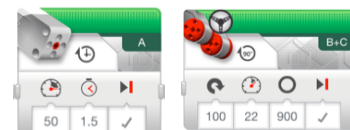
No Toy



With Toy

## BLOCKS YOU NEED:

**Medium Motor Block** to move the robot's arms and  
**Move Steering Block** to make the robot turn.



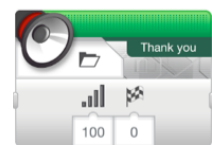
**Wait For block** (time, touch and infrared sensors)



**Display Block** to show sad and happy faces



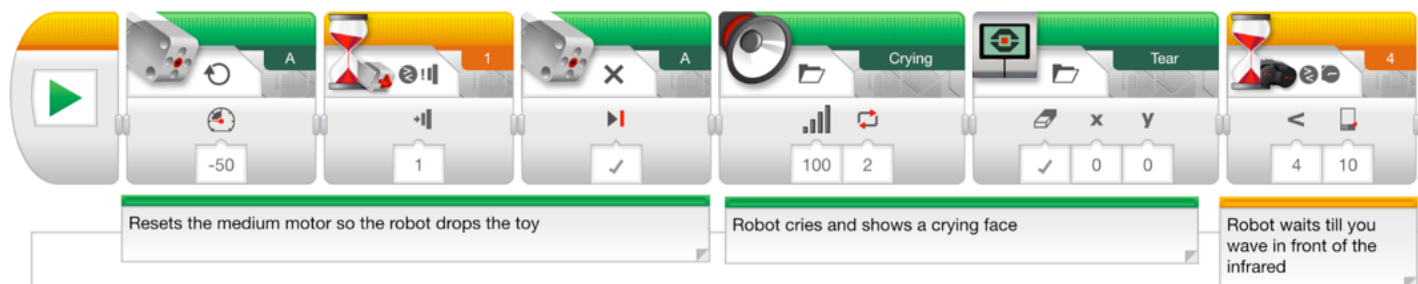
**Sound Block** to make the robot cry and say "thank you" and "goodbye"



STEP 1: Reset the arm first using the Medium Motor Block

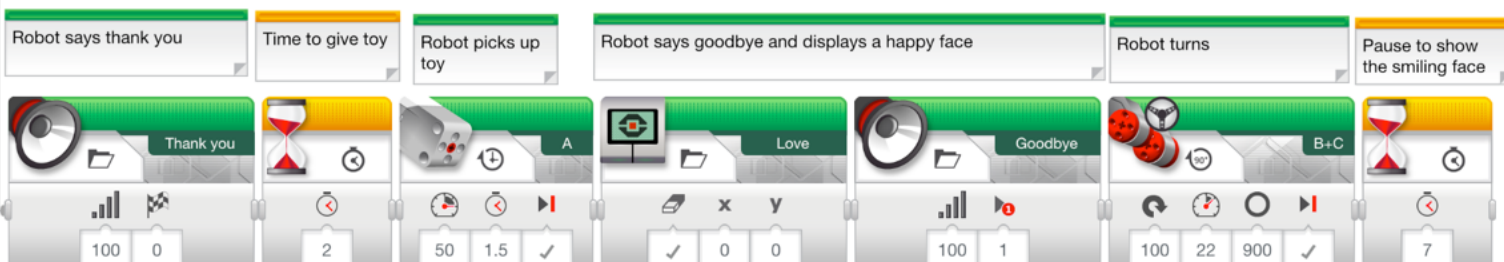
STEP 2: Use a Sound Block and Display Block to show the robot is sad.

STEP 3: Wait for the infrared sensor



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## SOLUTION



STEP 4: Say "thank you" and wait a little to receive the toy

STEP 5: Move the Medium Motor to hold the toy.

STEP 6: Use a Sound Block to say "good bye" and Display Block to show the robot is happy.

STEP 7: Use the Steering Block to have the robot turn so you can see the smiling face. for 7 seconds