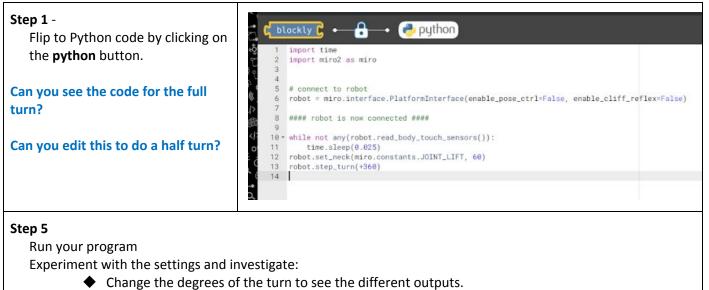
Step-by-Step

Simulate MiRo to play a range of sounds in the MiRo simulator

Program 1 - part (a)

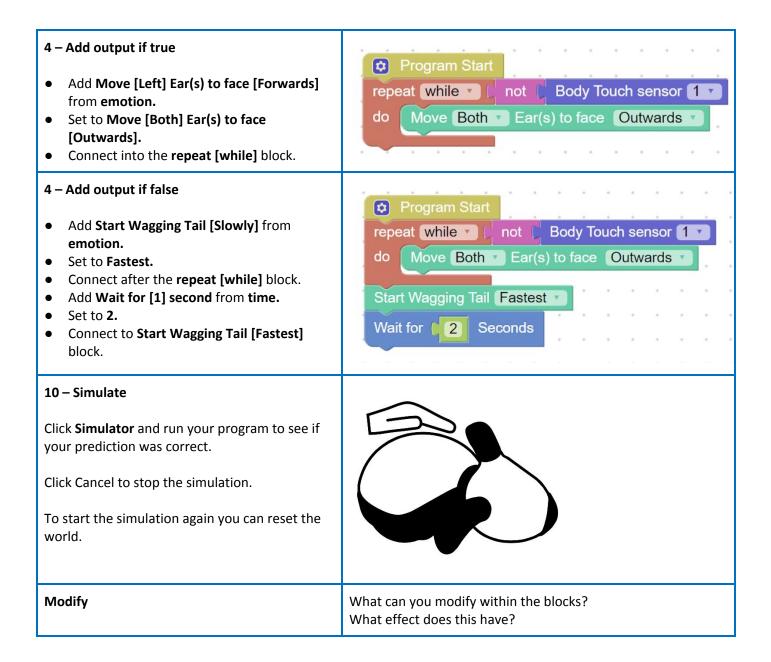
Step	Image
 1 – Set Up Add Program Start from Setup. 	Program Start
 2 - Add Sensor Add Wait for [body] touch from sensors. Connect to the Program Start block. 	Program Start Wait for body v touch
 3 – Add head movement Add Raise/Lower Head [Raise] from simple motion. Set to Lower. Connect to the Wait for body touch block 	Program Start Wait for body v touch Raise/Lower Head Lower v
 4 – Add body movement Add Turn MiRo [one quarter turn] to the [left] from simple motion. Set to one full turn. Connect to Raise/Lower Head [Lower] block. 	 Program Start Wait for body v touch Raise/Lower Head Lower v Turn MiRo one full turn v to the left v
 10 – Simulate Click Simulator and run your program to see if your prediction was correct. Click Cancel to stop the simulation. To start the simulation again you can reset the world. 	
Modify	What can you modify within the blocks? What effect does this have?

part (b)

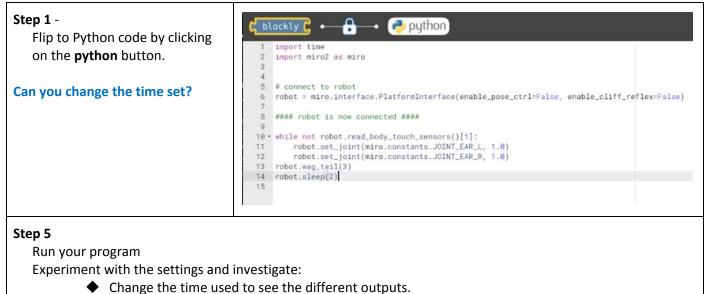


Program 2 - part (a)

Step	Image
 1 – Set Up Add Program Start from Setup. 	Program Start
 2 – Add Loop Add repeat [while] from loops. Connect to the Program Start block. 	Program Start repeat while C do
 3 – Add conditional statement Add not from logic. Connect to the repeat [while] block. Add Body Touch sensor [0] from sensors. Set to 1. Connect to not block. 	Program Start repeat while , not Body Touch sensor 1 do

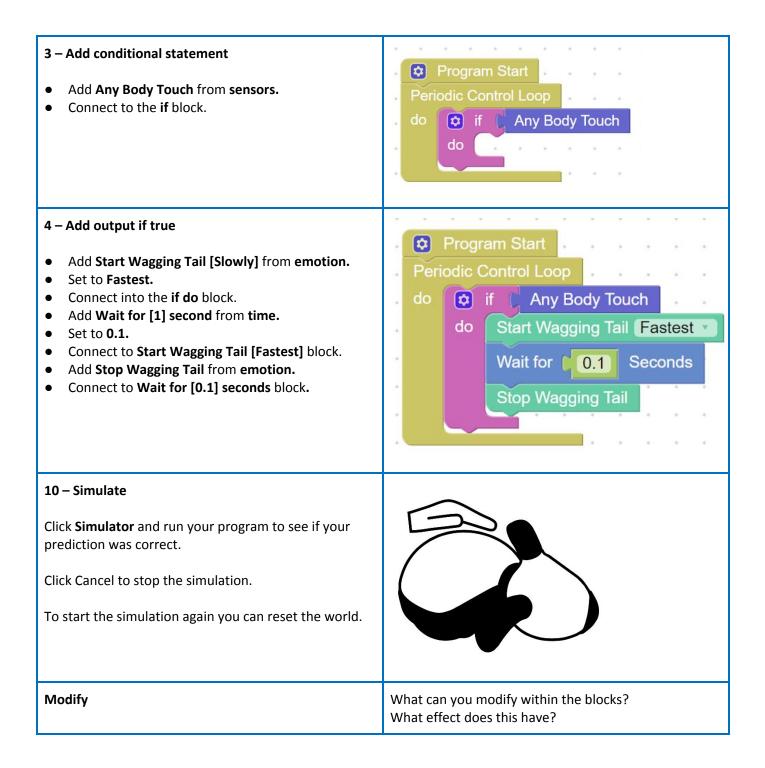


part (b)

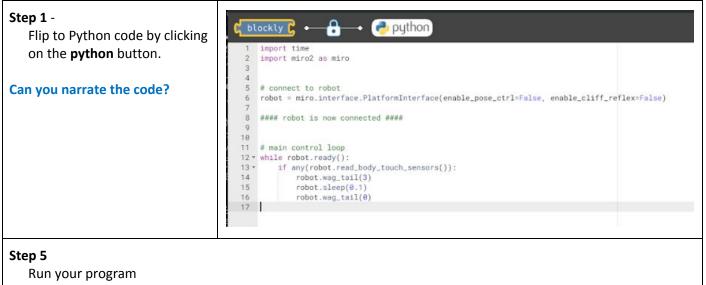


Program 3 - part (a)

Step	Image
 1 – Set Up Add Program Start from setup. Add Periodic Control Loop from setup. Connect to Program Start block. 	 Program Start Periodic Control Loop do
 2 – Add Selection Add if do from logic. Connect into the Periodic Control Loop block. 	 Program Start Periodic Control Loop do if do if



part (b)



Experiment with the settings and investigate.