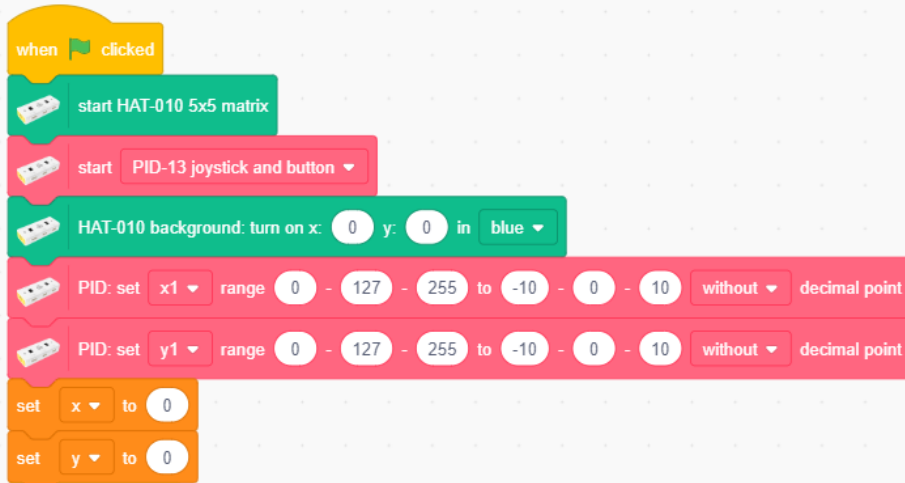# Go Get It

Simple Game

Minjun Kim

What do we do?

In this game, there will be a red light at a random position on the 5x5 matrix. The user's job is to control the blue light and go get the red light.
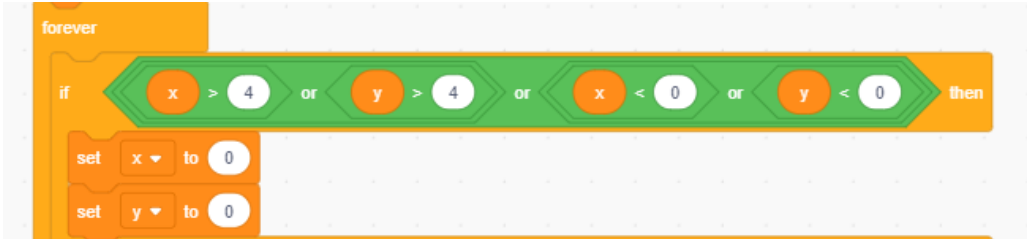
Used items

- Cheese Stick
- HAT-010
- PID-13 Joystick
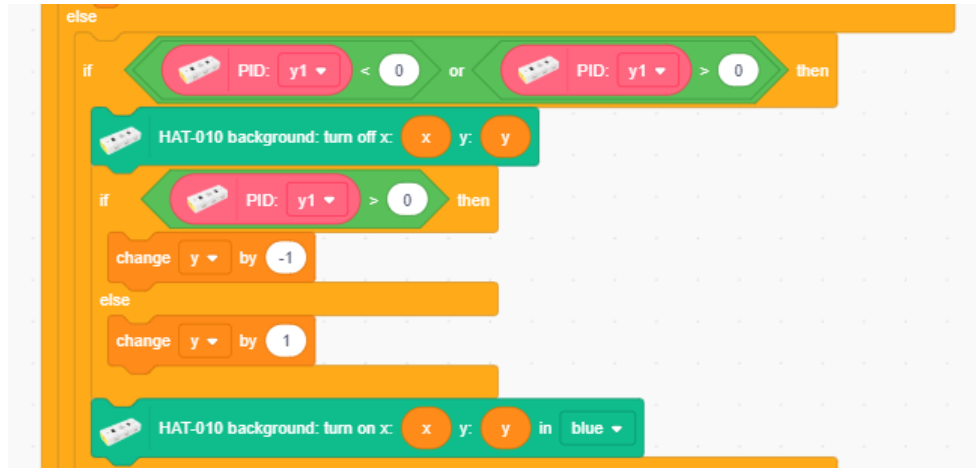
Controlling the blue light with joystick

- Start HAT-010 and PID-13
- Setup blue light at (0, 0)
- Setup PID x1, y1
- Setup variables "x" and "y"

Controlling the blue light with joystick

- Start forever loop
- If the blue light ever goes out-of-bounds, reset it back to (0,0)

Controlling the blue light with joystick

*This part is if blue light is still in-bounds

- If y1 is adjusted,
  - Turn off current position, change variable y according to y1 value.
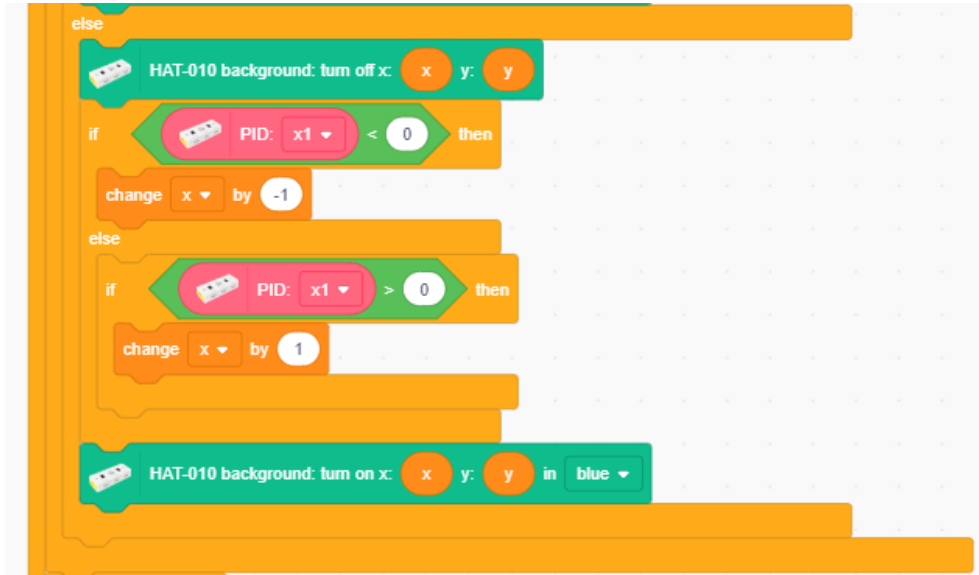 - Turn on on the new position

Controlling the blue light with joystick

*This part is if blue light is still in-bounds

- If x1 is adjusted,
  - Turn off current position, change variable x according to x1 value.
  - The else part here is different than other else since this is the very last else, meaning that this else is for all condition. So we need to put a condition here to prevent x from increasing by 1 constantly
  - Turn on on the new position

Randomly putting a red light in the matrix

*Start this when flag clicked.

- Forever, pick a random x and y position to be red.
- Wait 1 second to prevent multiple random lights.
- Using the PID button 2, this button will act as a switch to get a new random number.

Video