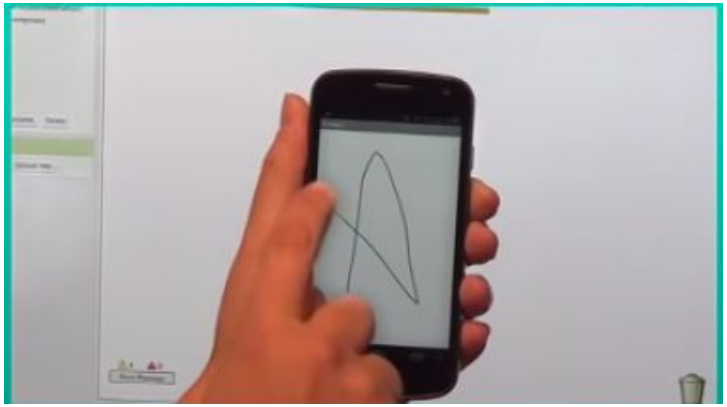
The Piano Artist

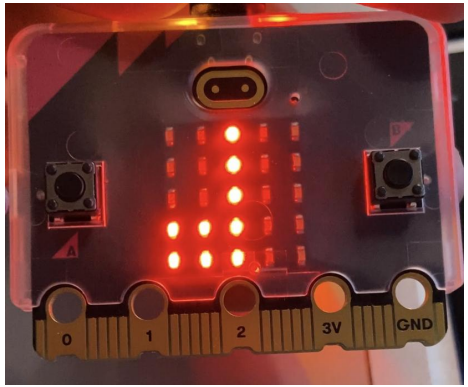
Jillian Lim

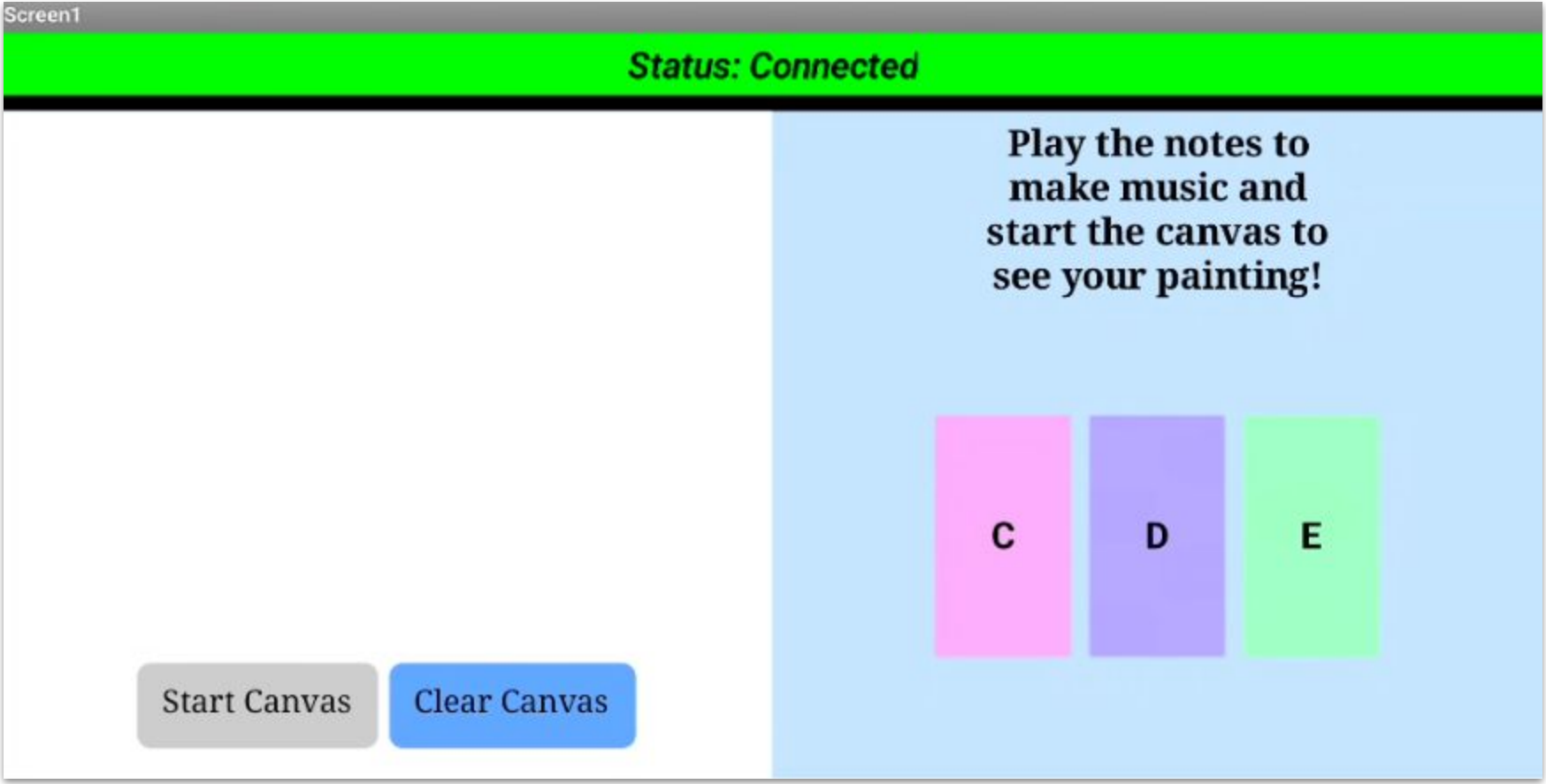
Main Idea

Integrate working with the microchip with sound in an interactive and fun way!

Integrating Different Projects






Screen1
Status: Connected
Play the notes to make music and start the canvas to see your painting!
C
D
E
Start Canvas
Clear Canvas

Main Concepts

- Getting sound from the microbit while using the buttons and images
- Using the piano keys to send sound to the microbit
- To create random colored drawings when the piano is playing

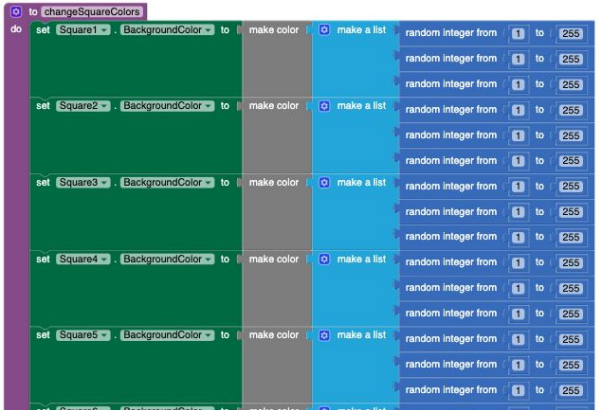
Some code

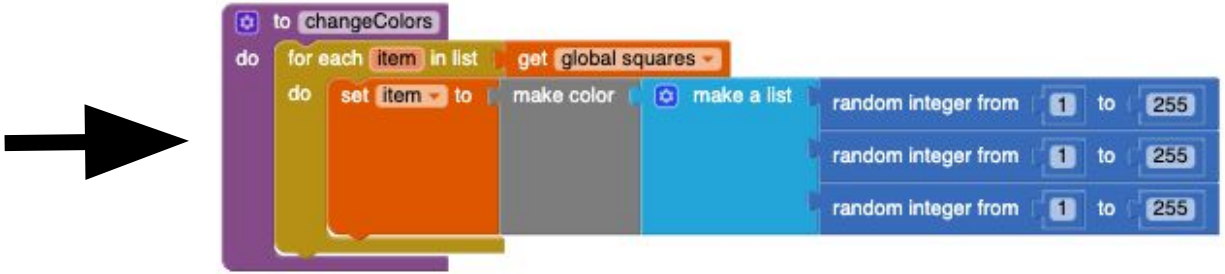
- Sending a message to the Microbit when the note is pressed
- Calling the change square colors procedure

More code

- Creating a procedure to change square colors
- Using a list to create a random color
- Using random from 1 to 255 for r,g,b values

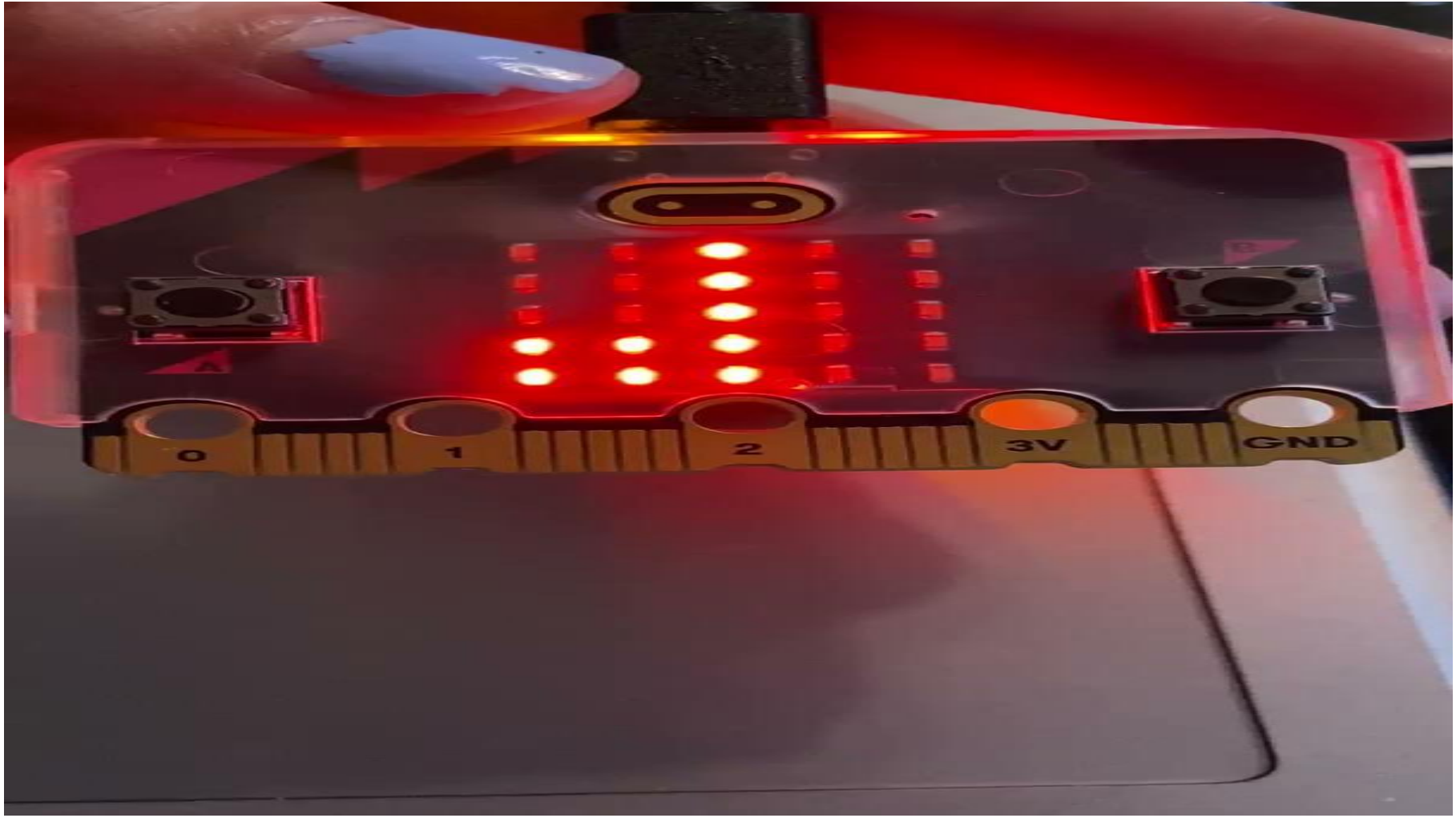
Simplify code





Microbit

- Detect message using an if-else if-else if statement to determine which note to play
- Show the icon (for fun!)
- Play the note for 1 beat for every time the button is pressed


0
1
2
3V
GND