

In this activity, you will learn how to read the state of potentiometer and using its reading to make a mouse move around in the stage. You will also make a script to control the brightness of the LED 13 using potentiometer.

STEP-BY-STEP

- 1. Open PictoBlox, connect evive to your computer, and select the Board as evive.
- Once you've selected the board, click on the Connect tab and connect the board. Click on Upload Firmware button.

CONTROLLING MOUSE

- **3.** Add the mouse sprite into the project and delete the Tobi sprite.
- 4. To change the direction of the mouse, we will use the point in direction () block. Since the direction vary from

when evive starts up

set PWM pin

13 🔻

output as

0 to 360 degrees and potentiometer value varies from 0 1023, we have to map the values.

Direction = ((Potentiometer Value) * 360) / 1023

- 5. Make the script which sets the mouse direction according the formula above. Add move (10) steps block inside the script to move the mouse as well.
- **6.** Click on the green flag to start the script.

CONTROLLING THE BRIGHTNESS OF LED

 Make the script using when flag clicked block, which repeatedly sets the PWM (brightness) of the LED 13

according to the potentiometer reading. Test the script.

- 8. To upload the code on evive, change the **when flag clicked** block with **when evive starts up** block.
- **9.** Switch to upload mode and upload the code to evive by clicking on Upload Code button.

	when 🎮 clicked	
forever		
	point in direction	potentiometer 1 • reading * 360 / 1023
	move 10 steps wait 0.02 seconds	STEP 5
	و	



STEP 8

potentiometer 1 - reading