

Creating an animation using the 8x8 module

Methodical material of laboratory work



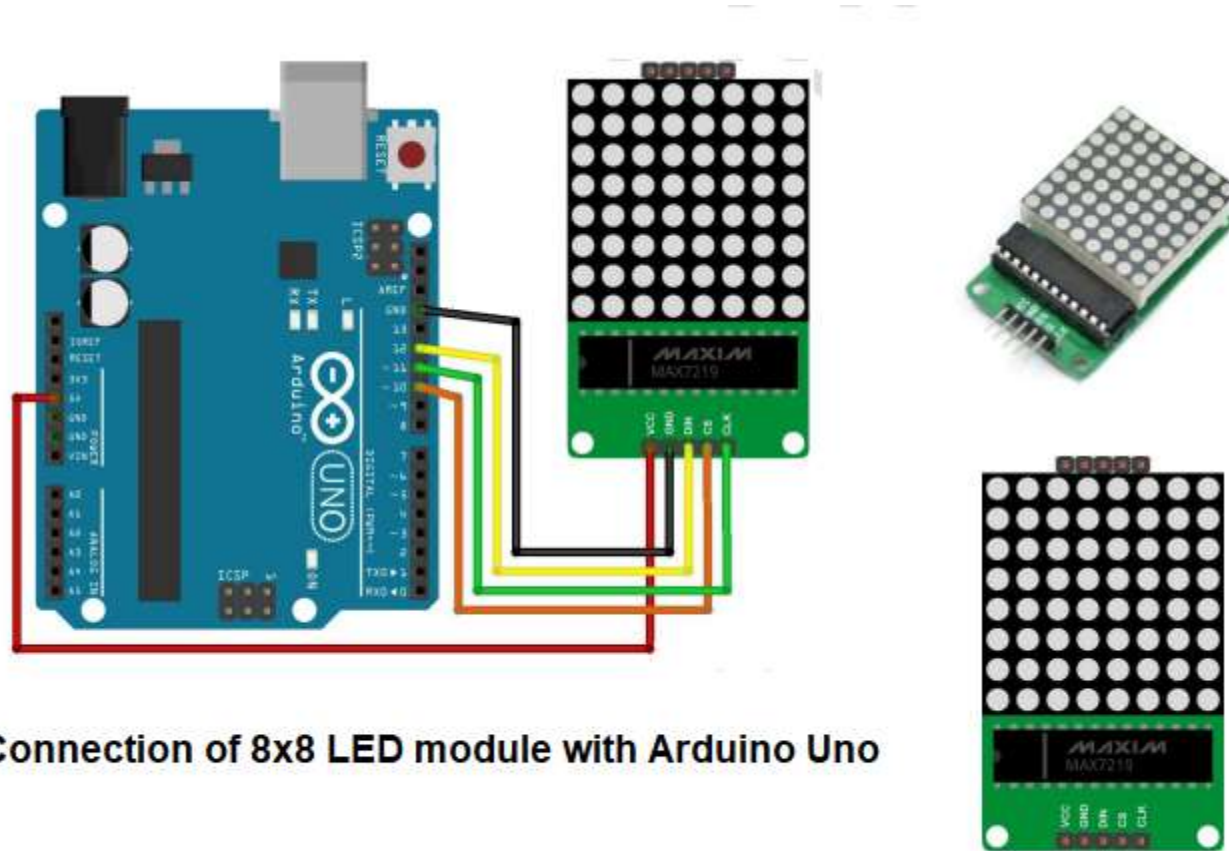
Erasmus+ KA101

„STEAM ugdymo plėtra mokykloje – novatoriškas ugdymas(is)“

Projektas finansuojamas iš ES programos Erasmus+ lėšų

2019-1-LT01-KA101-060311

Connection of 8x8 LED module with Arduino Uno



Connection of 8x8 LED module with Arduino Uno



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Download Mblock coding program



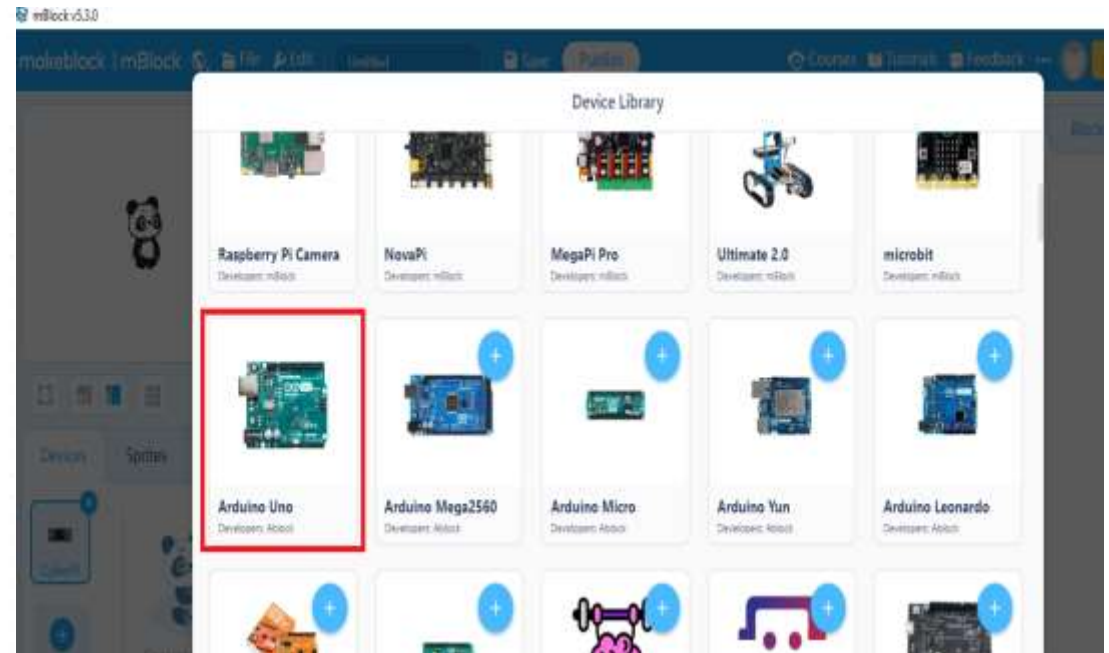
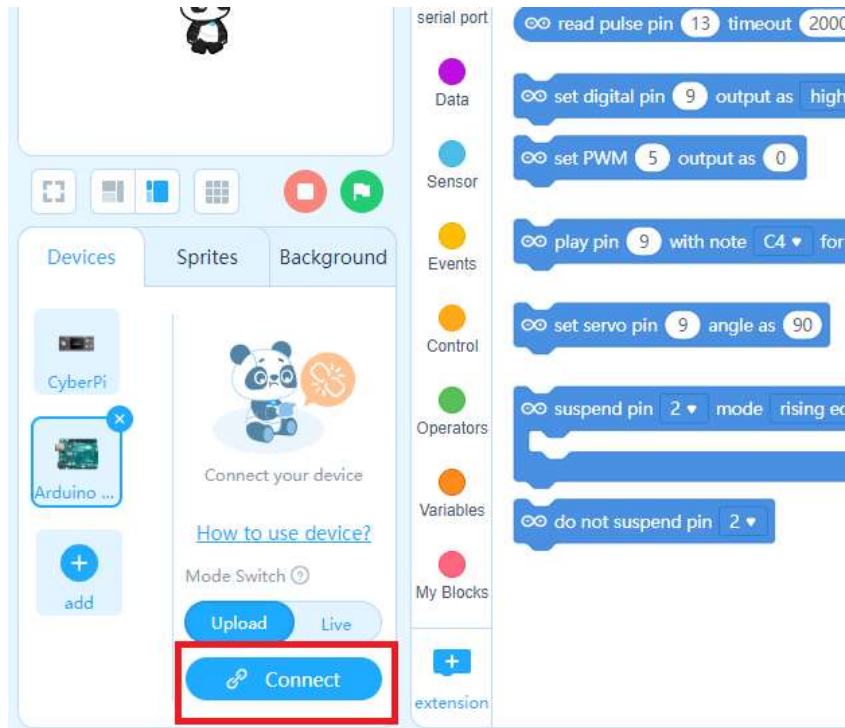
- <https://mblock.makeblock.com/en-us/download/>



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Adding equipment



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Adding an 8x8 module programming library

The image shows the Scratch IDE interface. On the left, the 'My Blocks' category is selected, and the 'extension' button is highlighted with a red box. The 'Extension center' window is open, showing a search for '8x8' and a list of results. The 'MAX7219 module' result is highlighted with a red box, and its '+ Add' button is also highlighted with a red box.

Devices: CyberPi, Arduino ...

Sprites: Connect your device, How to use device?, Mode Switch, Upload, Live, Connect

Events, Control, Operators, Variables, My Blocks

extension

Extension center

Back

8x8

Sprite Extensions, Device Extensions

MatrizLed

MAX7219 BX8LED

MAX7219 module

OLED I2C 128x64

oled Oled ssd1306

+ Add

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Coding by Mblock

set pins: DIN: 7 CS: 6 CLK: 5

LED brightness (0 -15): 2

turn on ▼ LED of row 1 column

turn off all the LEDs

draw figure

set pins: DIN: 7 CS: 6 CLK: 5

Write conected pins

LED brightness (0 -15): 2

Select Led brightness

draw figure

Draw animation pictures

when Arduino Uno starts up

set pins: DIN: 7 CS: 6 CLK: 5

forever

draw figure

wait 0.5 seconds

draw figure

wait 0.5 seconds

draw figure

wait 0.5 seconds

draw figure

wait 0.5 seconds

draw figure

wait 0.5 seconds

draw figure

wait 0.5 seconds

draw figure

wait 0.5 seconds



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Coding week 2021 students works

https://youtu.be/TTyP2qyMH_Q



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