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Project :Decible check using mBot

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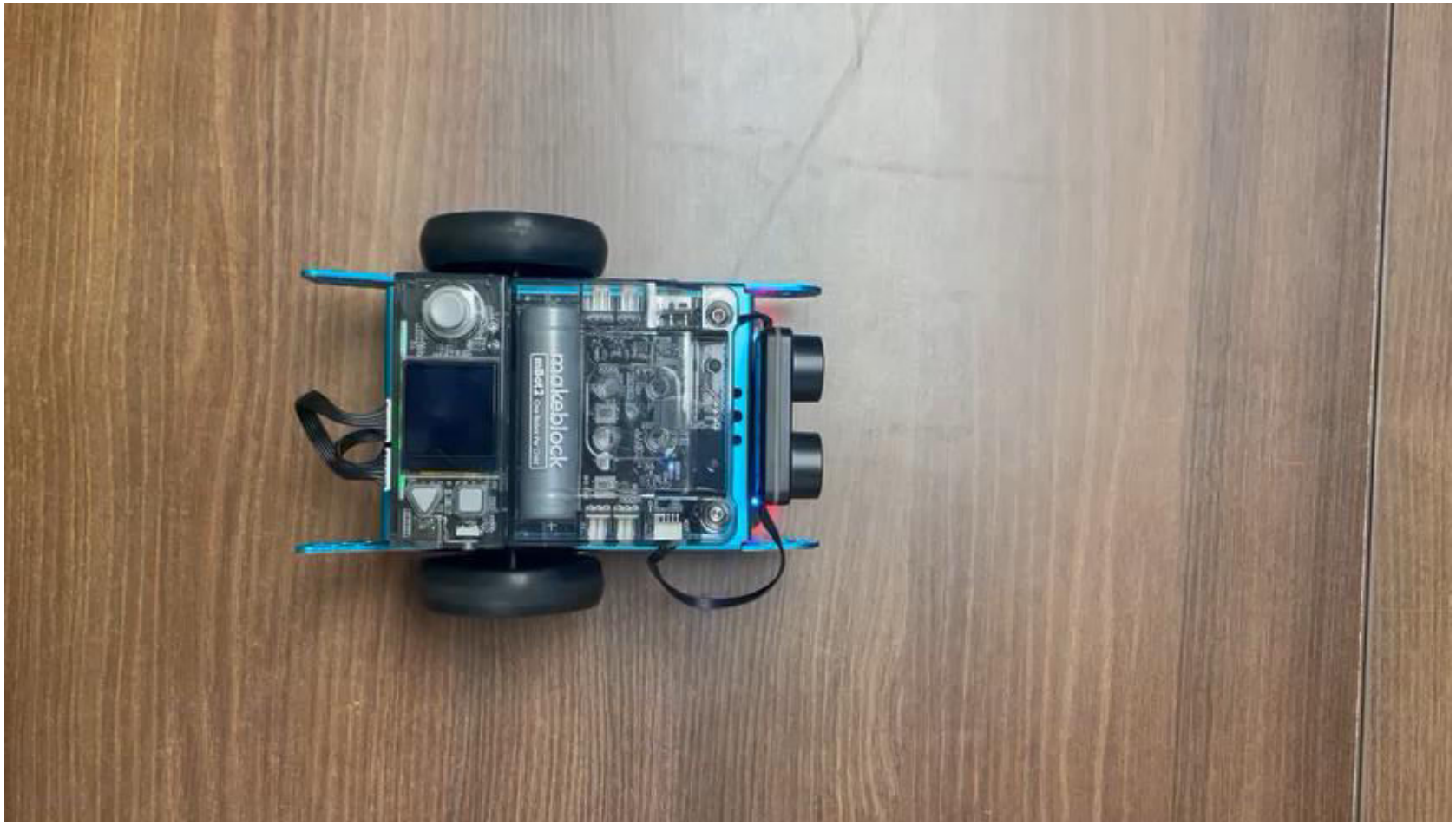
Let us watch this video.....


makeblock

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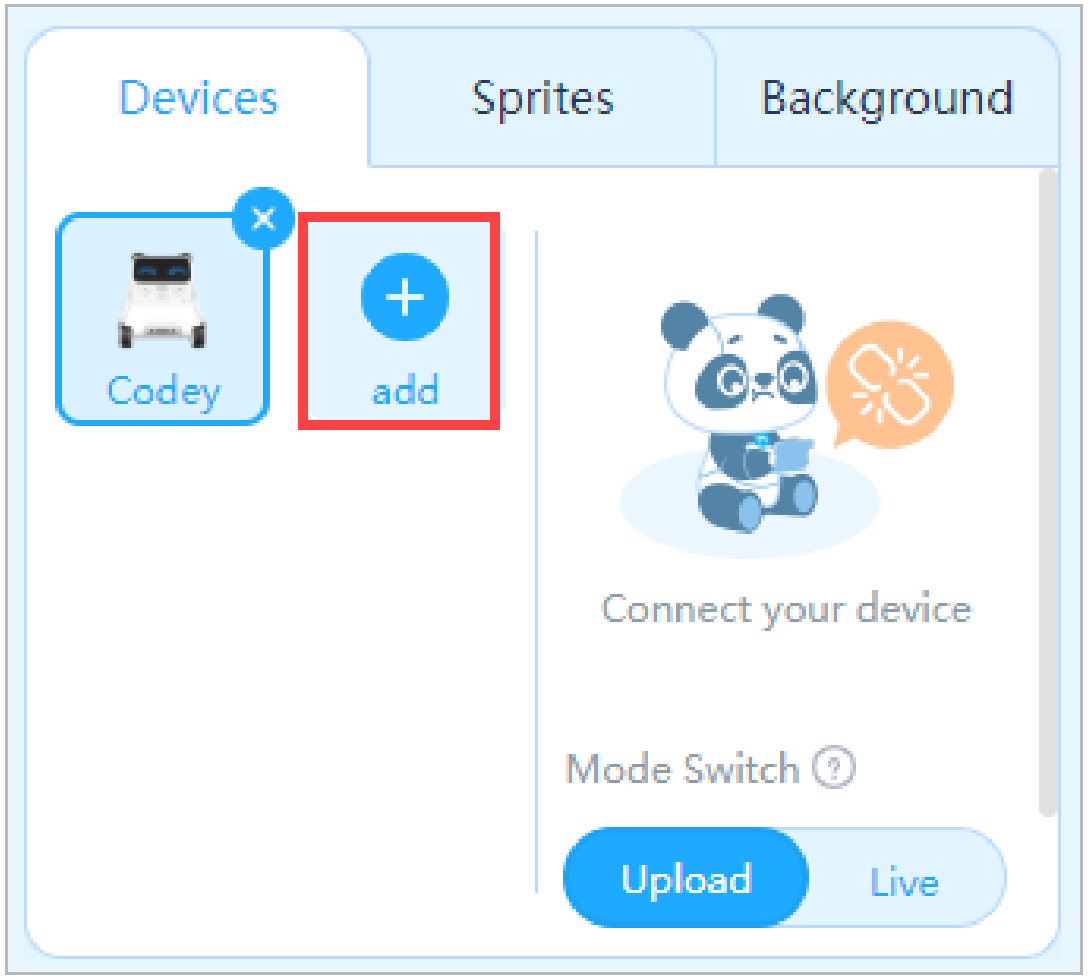
What did we see?

Observations:

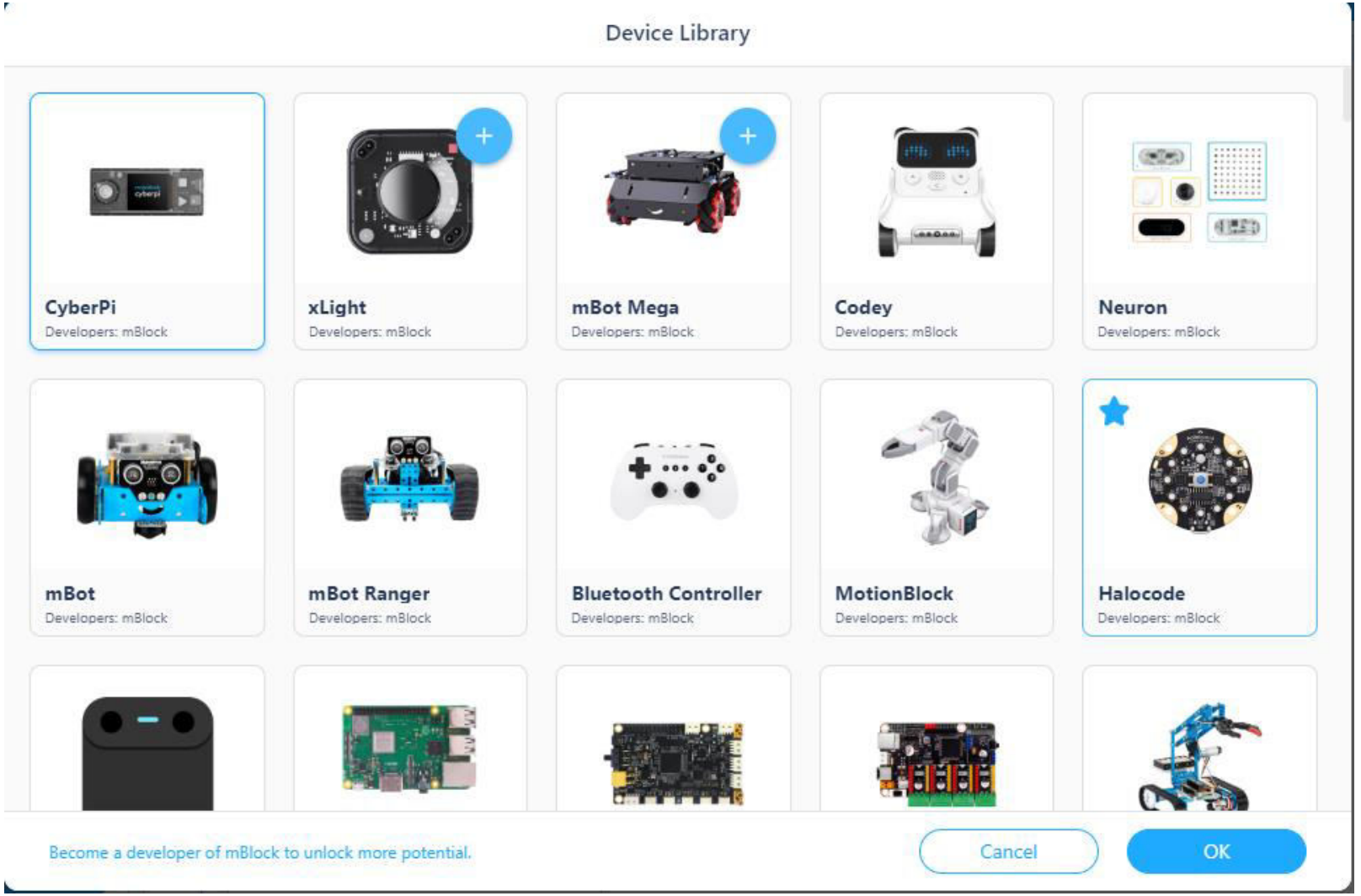
- When the surrounding noice is greater than the noice pollution limit the robot is displaying message and saying “keep quite” until the noise level comes below the limit.
- The bot is able to detect the surrounding noise and is taking action according to the noise level

Steps to make a program

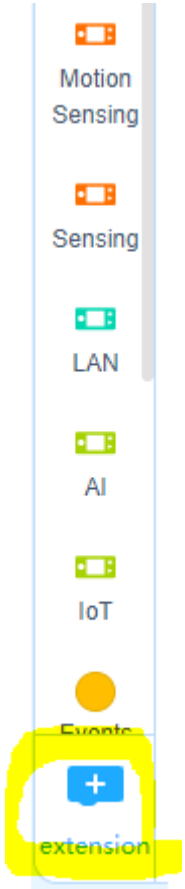
Step 1: Open mBlock Software. Go to Devices tab and click on the add button.

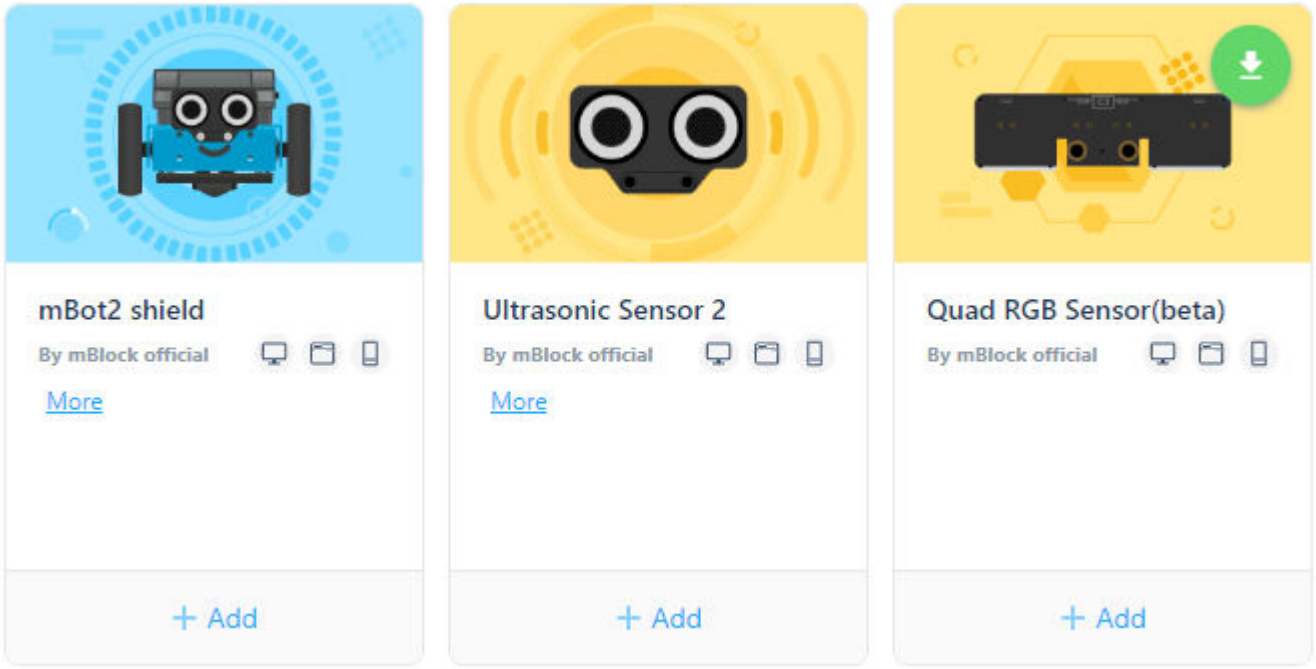


Step 2: select CyberPi as a device to program it.

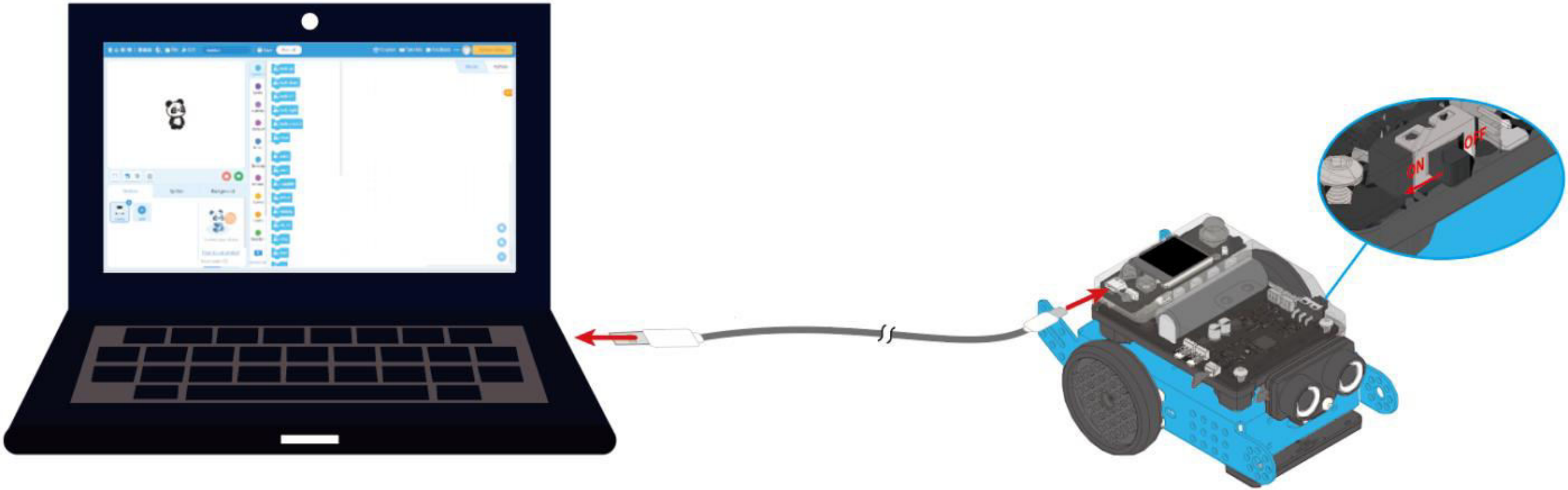


Step 3: Now, click on the extension and add following extensions one by one

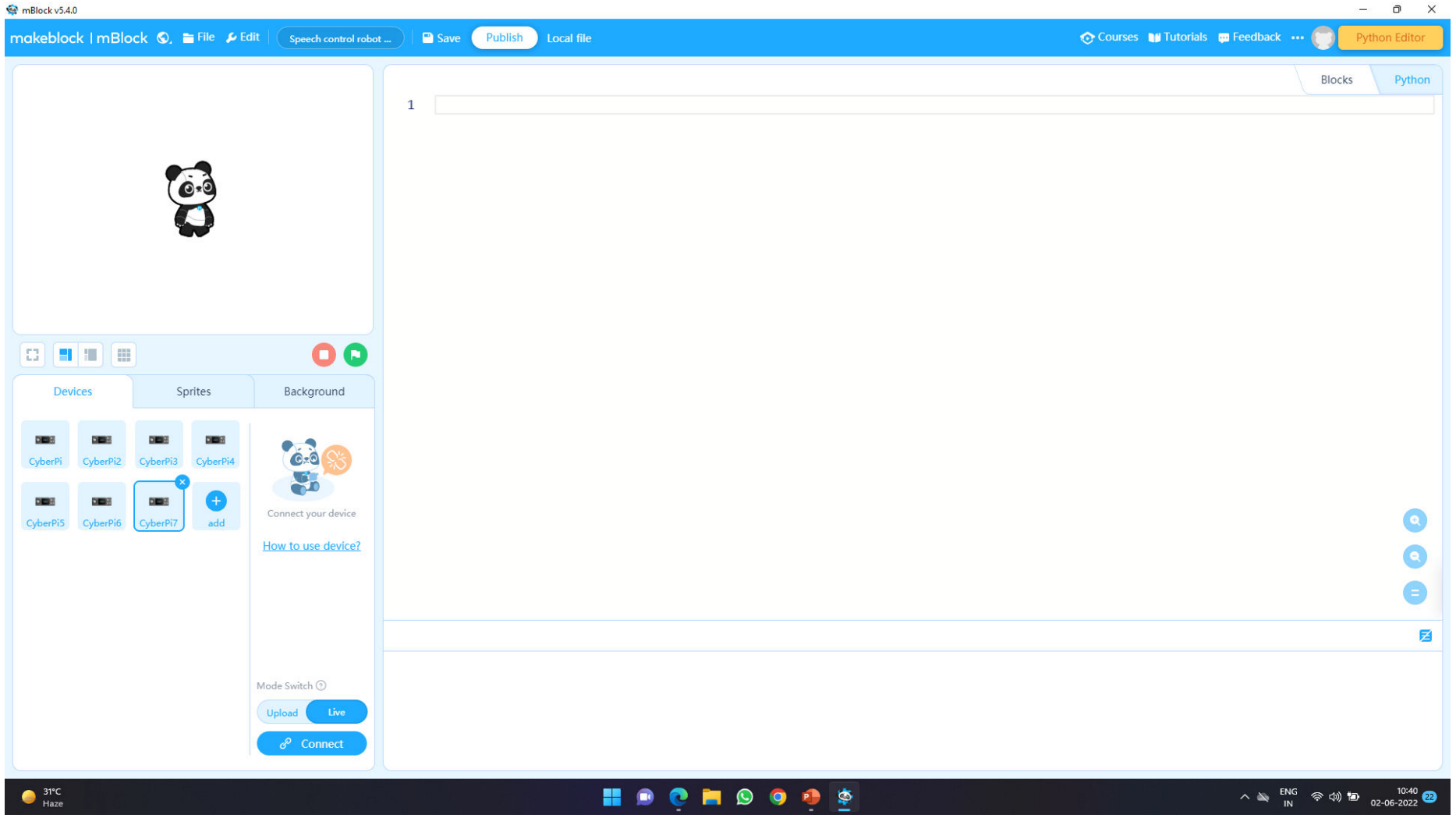




Step 4: Connect mBot2 with PC using an uploading cable



Step 5: Switch to python tab to write the program.



Step6: Let us write the python program for decible check using mBot

```
#Decible check-Noise Alarm
import mbot2
import cyberpi
import mbuild
import time
cyberpi.console.print('Decible check- Noise alarm')
time.sleep(2)
while True:
    if 50 < cyberpi.get_loudness("maximum"):
            cyberpi.console.clear()
            cyberpi.console.print('Keep Quite')
            cyberpi.led.on(208, 2, 27, "all")
            cyberpi.audio.play_until('angry')

    else:
            cyberpi.console.clear()
            cyberpi.console.print('No noise pollution')
            cyberpi.led.on(1, 208, 12, "all")
```

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Thank you!