

Project : Obstacle Attacker Robot

Let us watch this
video.....



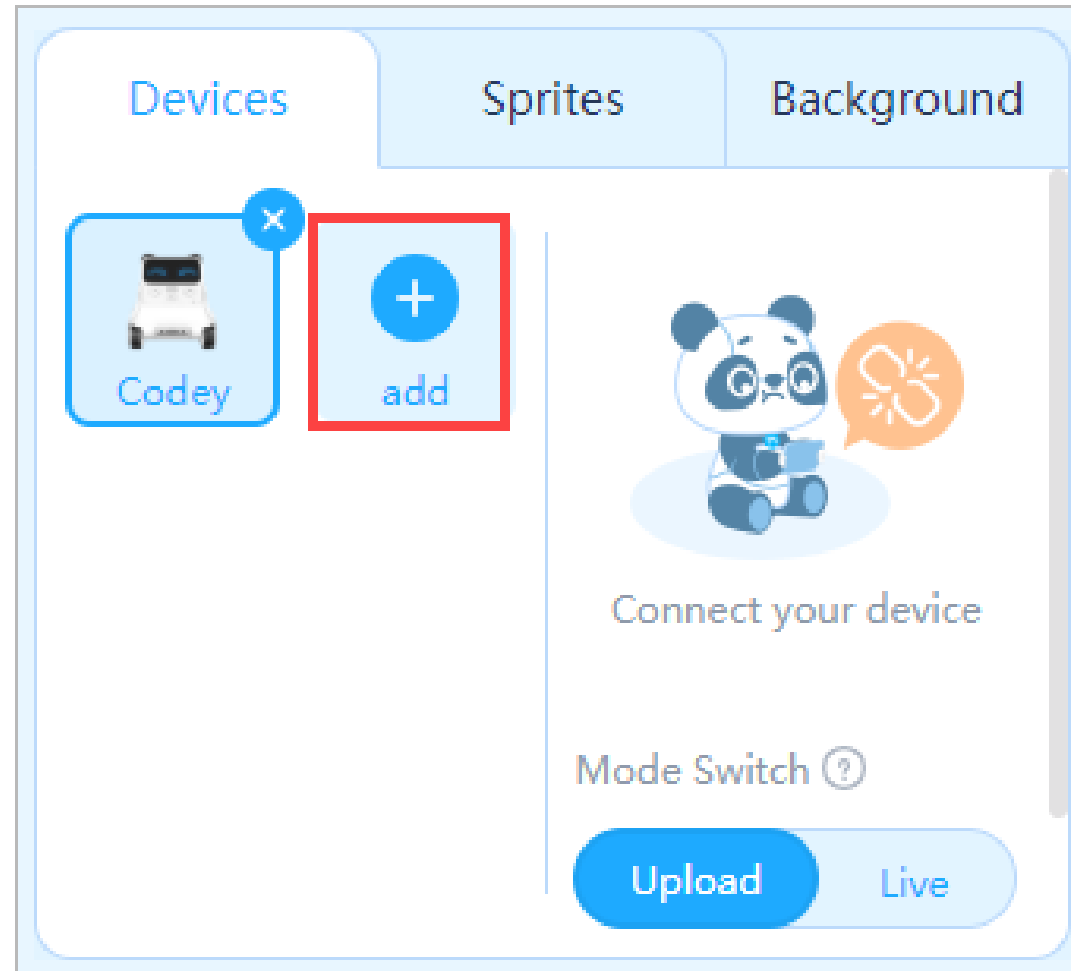
What did we see?

Observations:

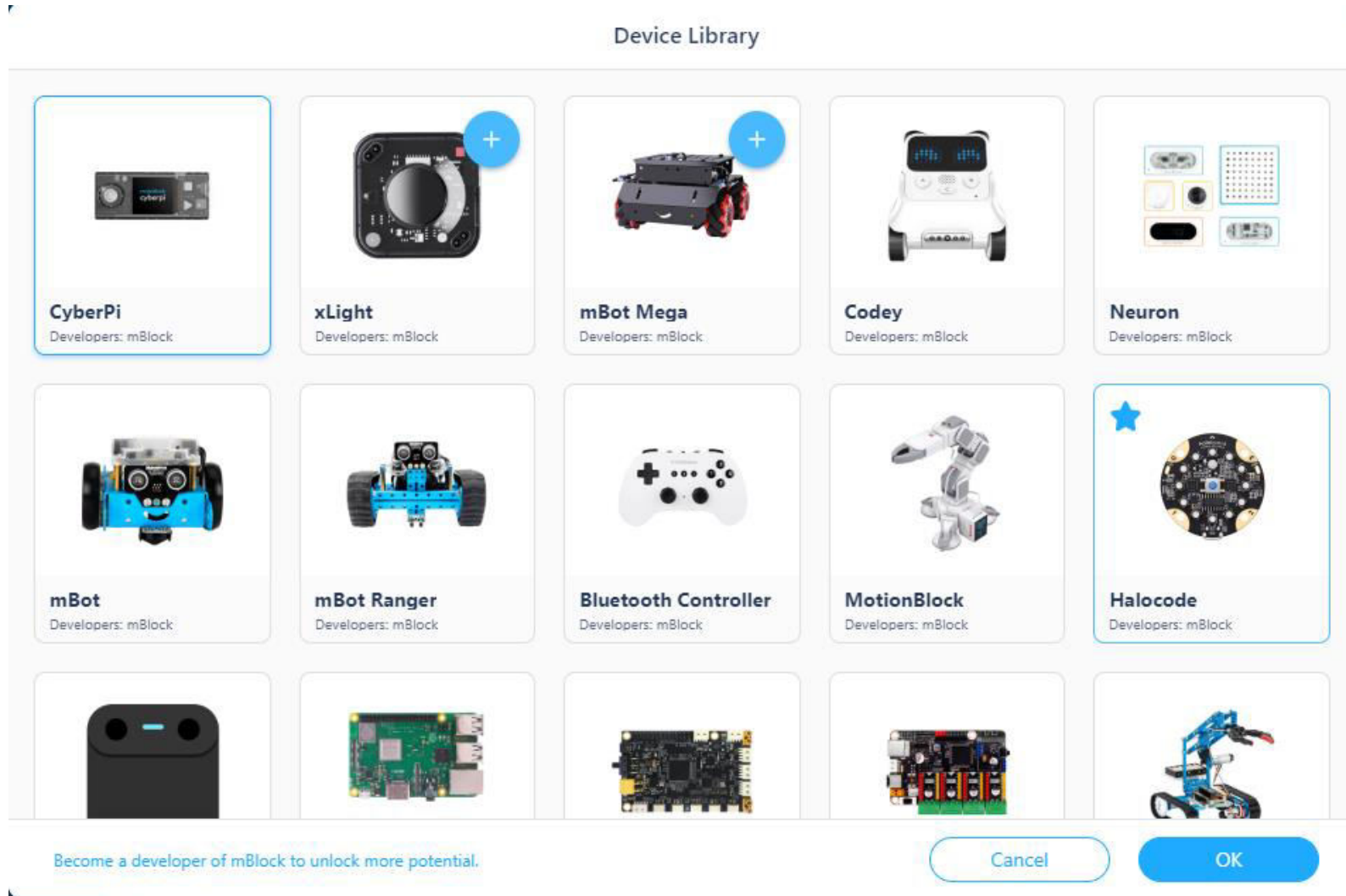
- When robot starts, it moves with 50 percent speed. Ultrasonic sensor is continuously searching for object.
- If robot detects the object, the robot is trying to make an attack on it.

Steps to make a program

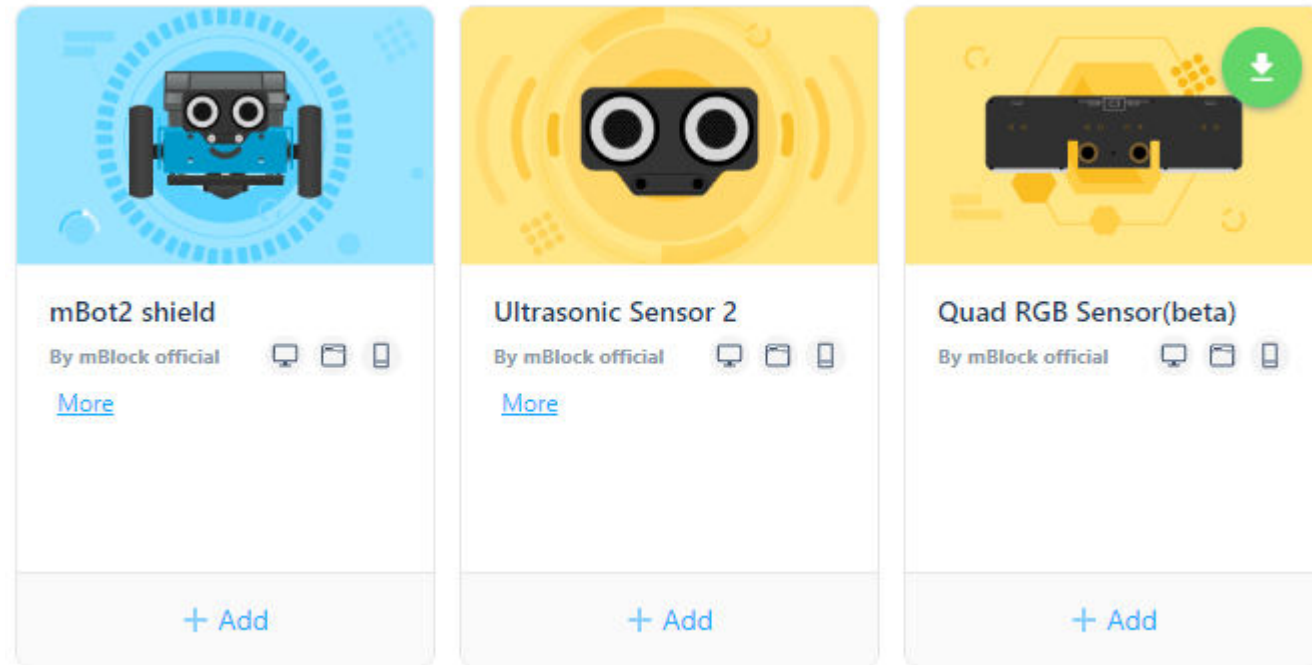
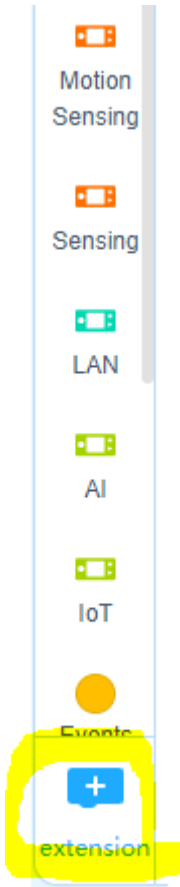
Step 1: Open mBlock Software. Go to Devices tab and click on the add button.



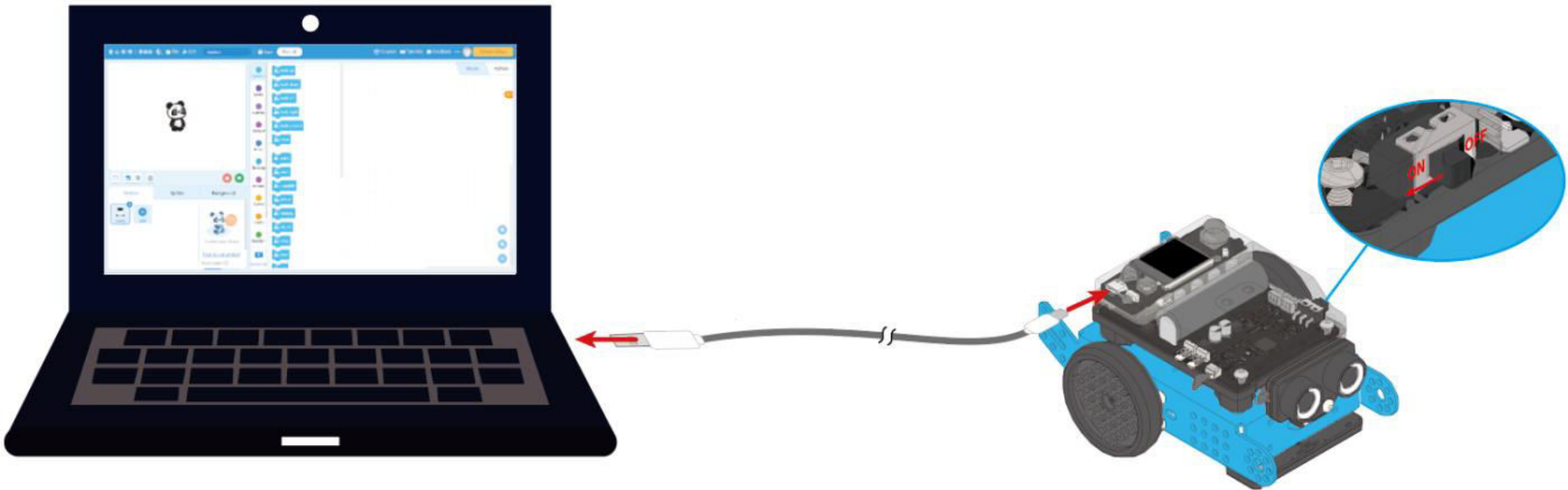
Step 2: select CyberPi as device to program it.



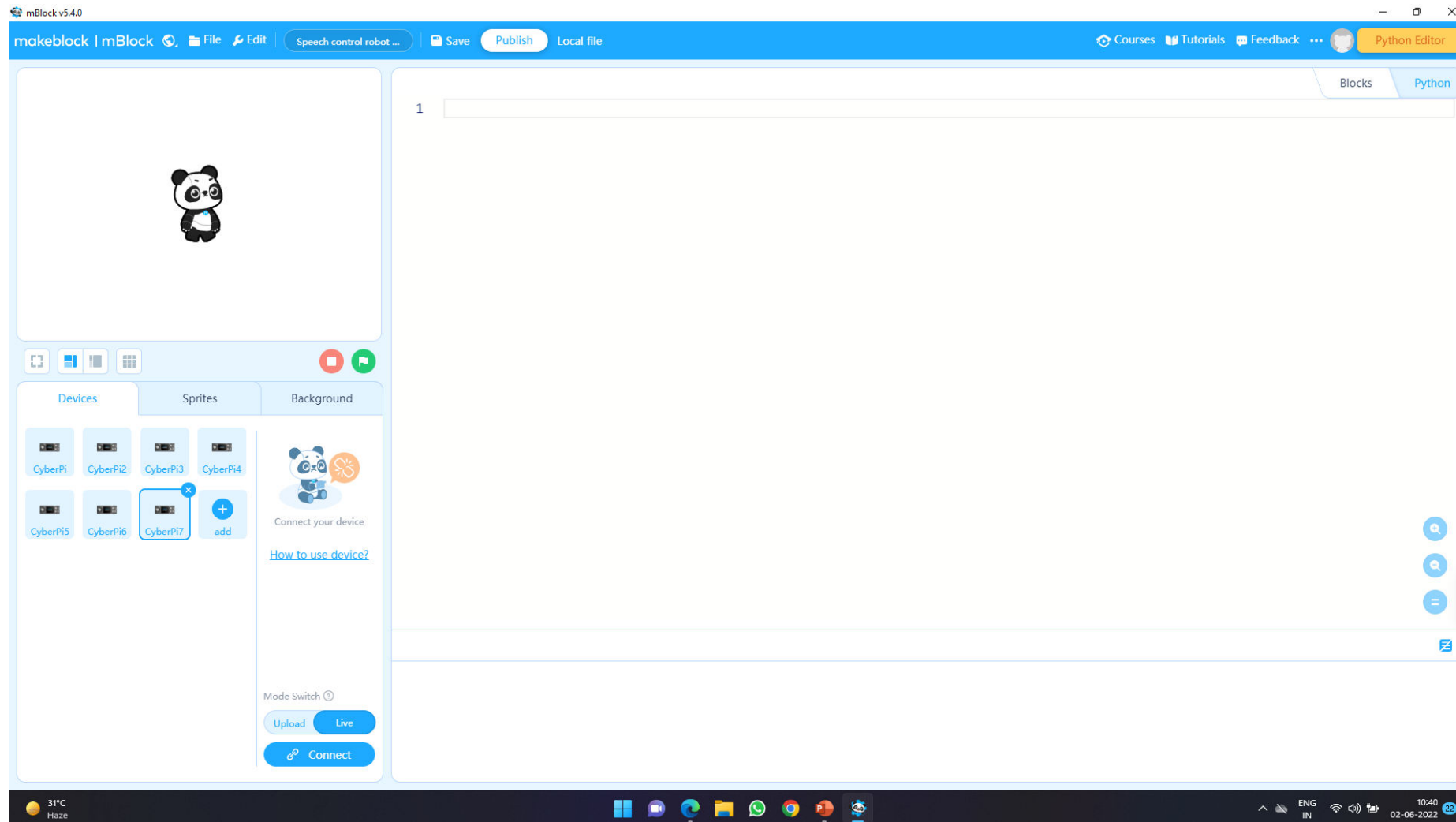
Step 3: Now, click on the extension and add following extensions one by one



Step 4: Connect mBot2 with PC using an uploading cable



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



Step6: Now, let's write python program for Obstacle Attacker Robot

```
1  """Obstacle Attacker robot"""
2  import mbot2
3  import cyberpi
4  import mbuid
5  import time
6  while True:
7      if mbuid.ultrasonic2.get(1) < 20:
8          cyberpi.console.print('Object Detected')
9          cyberpi.led.show('red red red red red')
10         time.sleep(0.5)
11         cyberpi.console.clear()
12         cyberpi.console.print('Attack!!!!!!!!!!')
13         mbot2.EM_stop("ALL")
14         mbot2.forward(100)
15         time.sleep(1)
16
17     else:
18         cyberpi.console.print('No Object Detected')
19         cyberpi.led.show('green green green green green')
20         mbot2.forward(35)
```

Thank you!