

Project :Speech controlled colours

Let us watch this
video.....



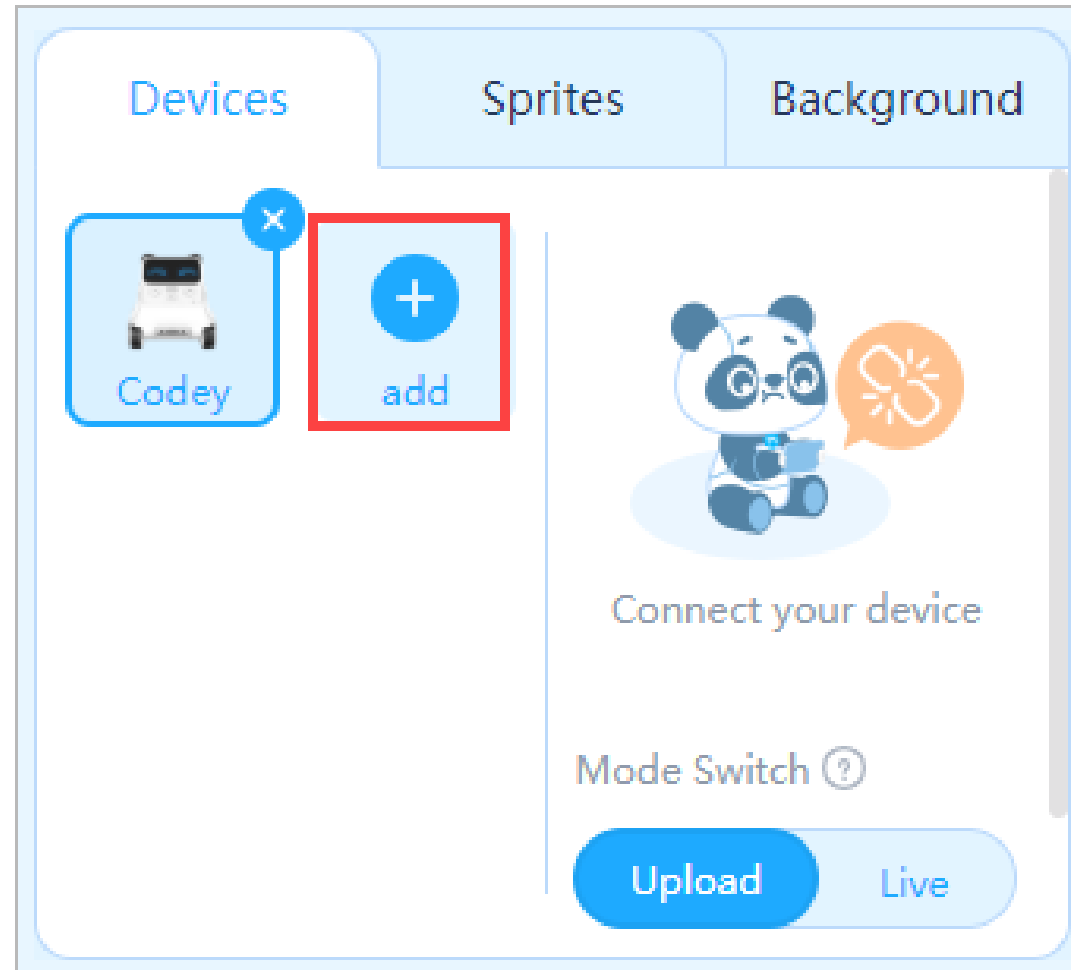
What did we see?

Observations:

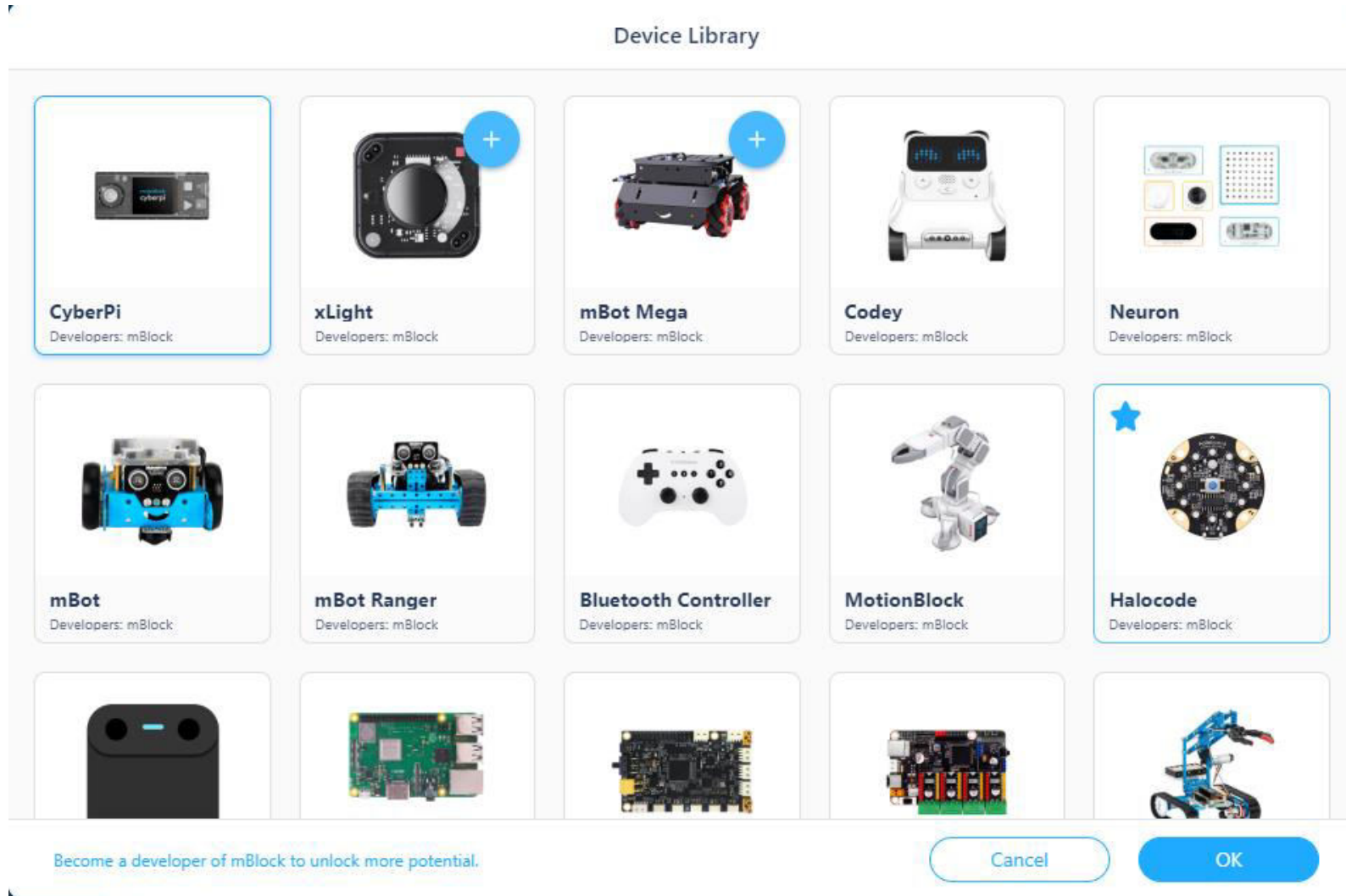
- When CyberPi is connected, robot is recognising the voice for 2 sec and displayed the answer on the screen.
- The robot recognises red, yellow, green, blue for 2 sec .

Steps to make a program

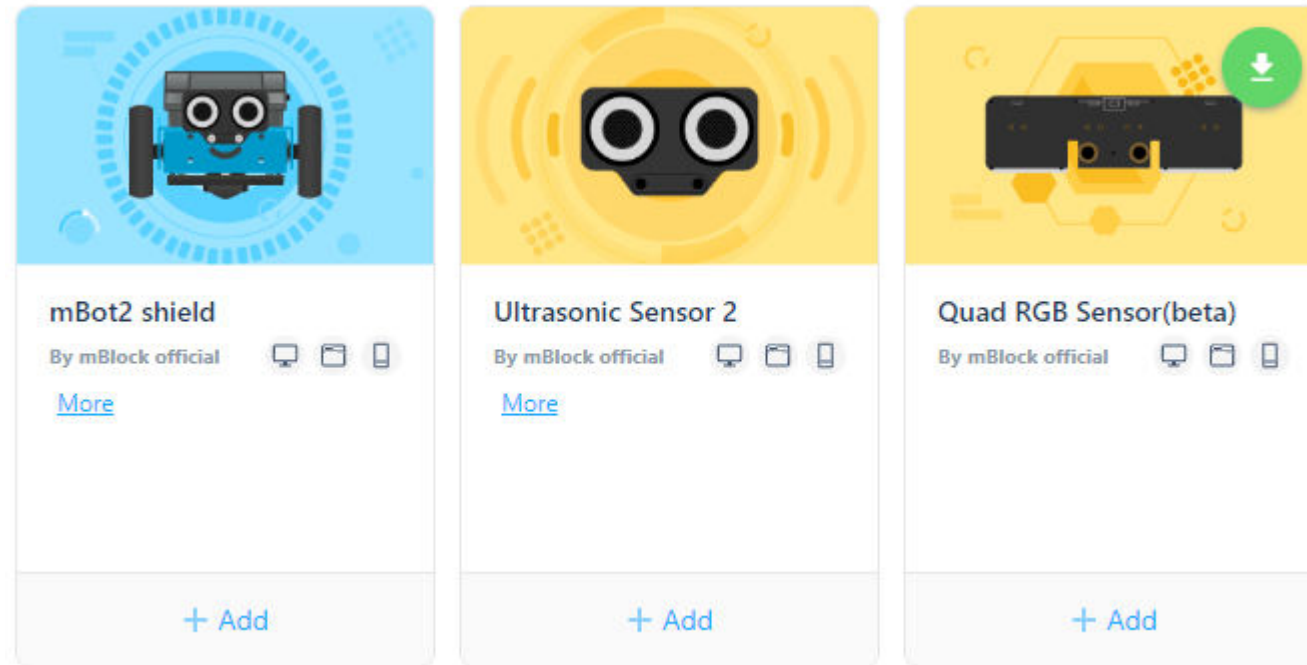
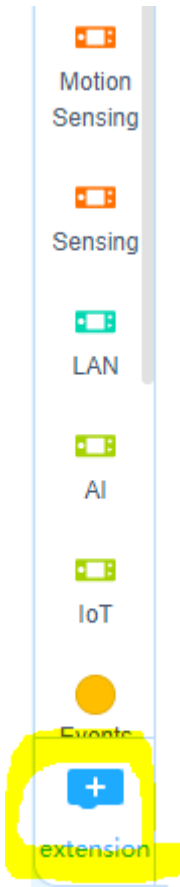
Step 1: Open mBlock Software. Go to Devices tab and click on the add button.



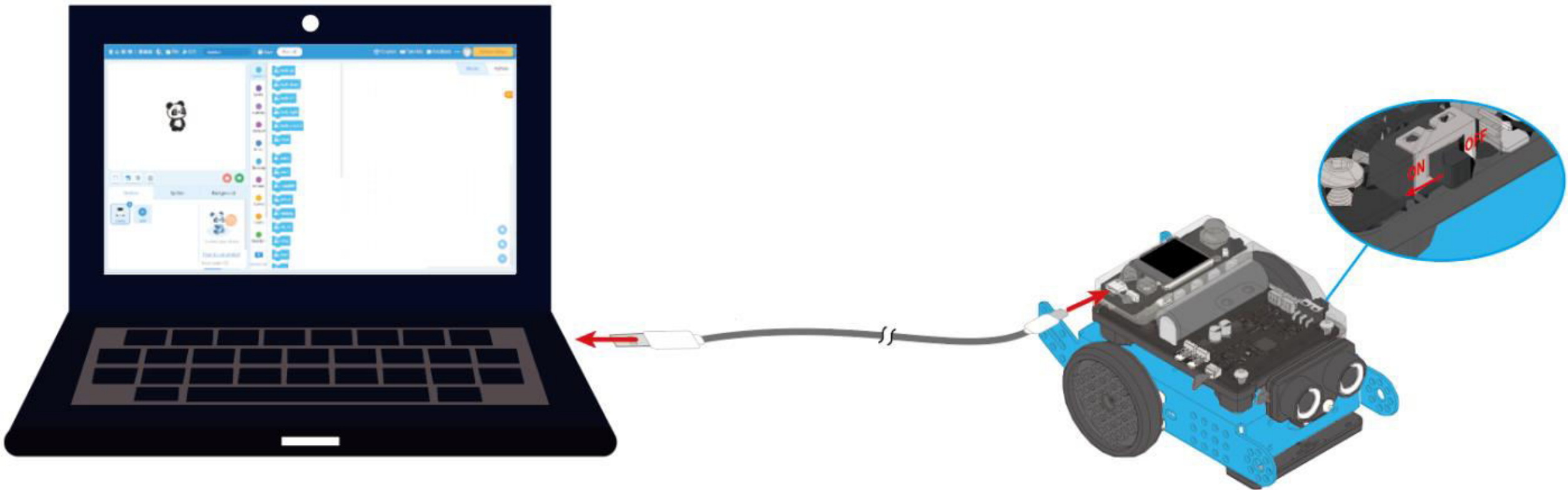
Step 2: select CyberPi as a device to program it.



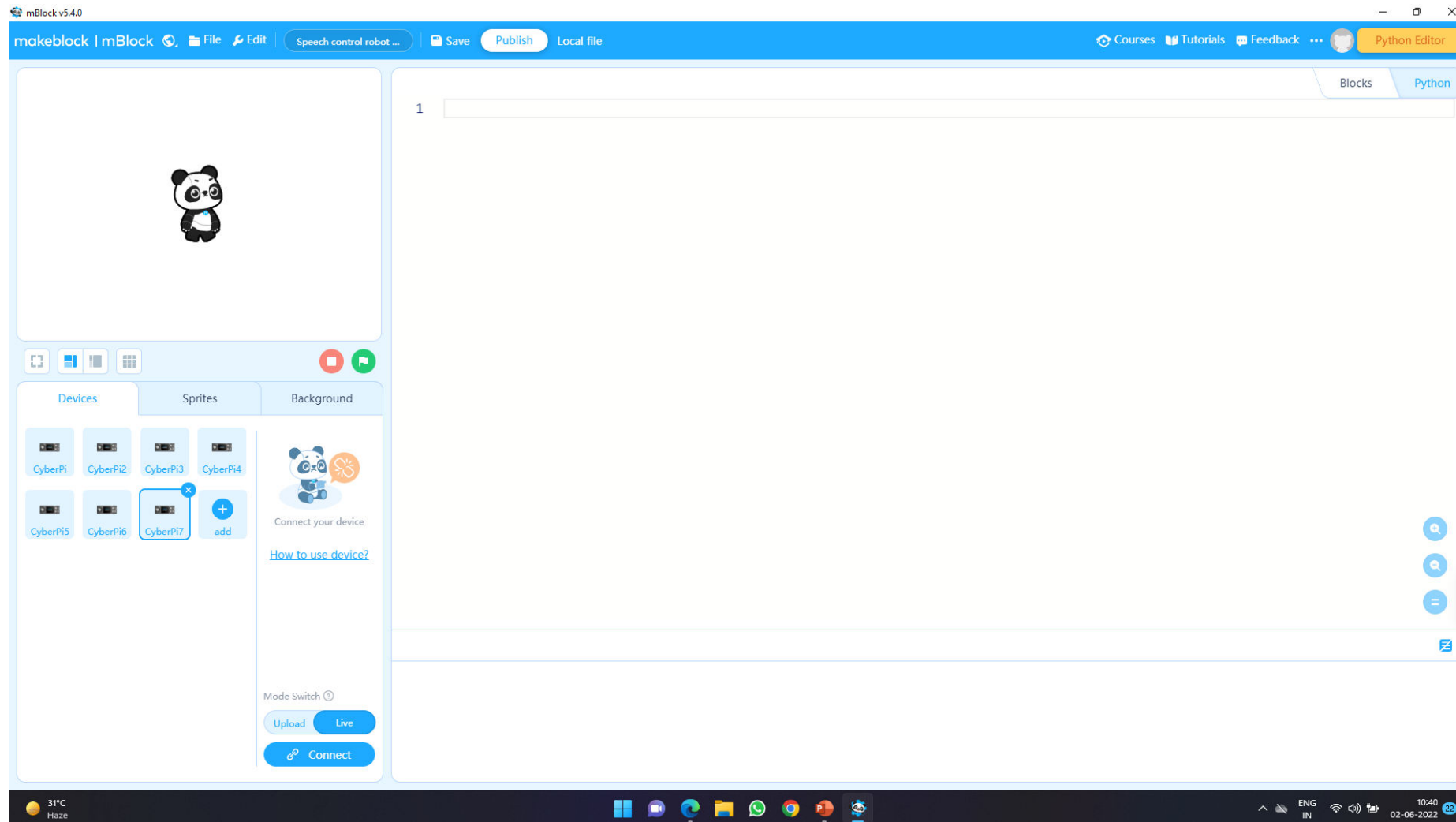
Step 3: Now, click on the extension and add following extensions one by one



Step 4: Connect mBot2 with PC using an uploading cable



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



Step6:Let us write the python program for speech control colours.

```
1 #Speech Control Colours
2 import event, time, cyberpi
3
4 cyberpi.speech.set_recognition_address(url = "{NAVIGATEURL}")
5 cyberpi.speech.set_access_token(token = "{ACCESSTOKEN}")
6
7
8 cyberpi.wifi.connect('user', '123456789')
9 while not cyberpi.wifi.is_connect():
10     pass
11
12 cyberpi.console.set_font(16)
13 cyberpi.console.print('Connected')
14 time.sleep(2)
15 cyberpi.console.clear()
16 cyberpi.console.print('Press Joystick button and say colour name')
17
18 while True:
19
20     if cyberpi.controller.is_press("middle"):
21         cyberpi.cloud.listen('english', 2)
22         cyberpi.console.print(cyberpi.cloud.listen_result())
23         if str(cyberpi.cloud.listen_result()).find(str('red')) > -1:
24             cyberpi.led.show('red red red red red')
25
26         if str(cyberpi.cloud.listen_result()).find(str('green')) > -1:
27             cyberpi.led.show('green green green green green')
28
29         if str(cyberpi.cloud.listen_result()).find(str('yellow')) > -1:
30             cyberpi.led.show('yellow yellow yellow yellow yellow')
31
32         if str(cyberpi.cloud.listen_result()).find(str('blue')) > -1:
33             cyberpi.led.show('blue blue blue blue blue')
34
35 --
```

Thank you!