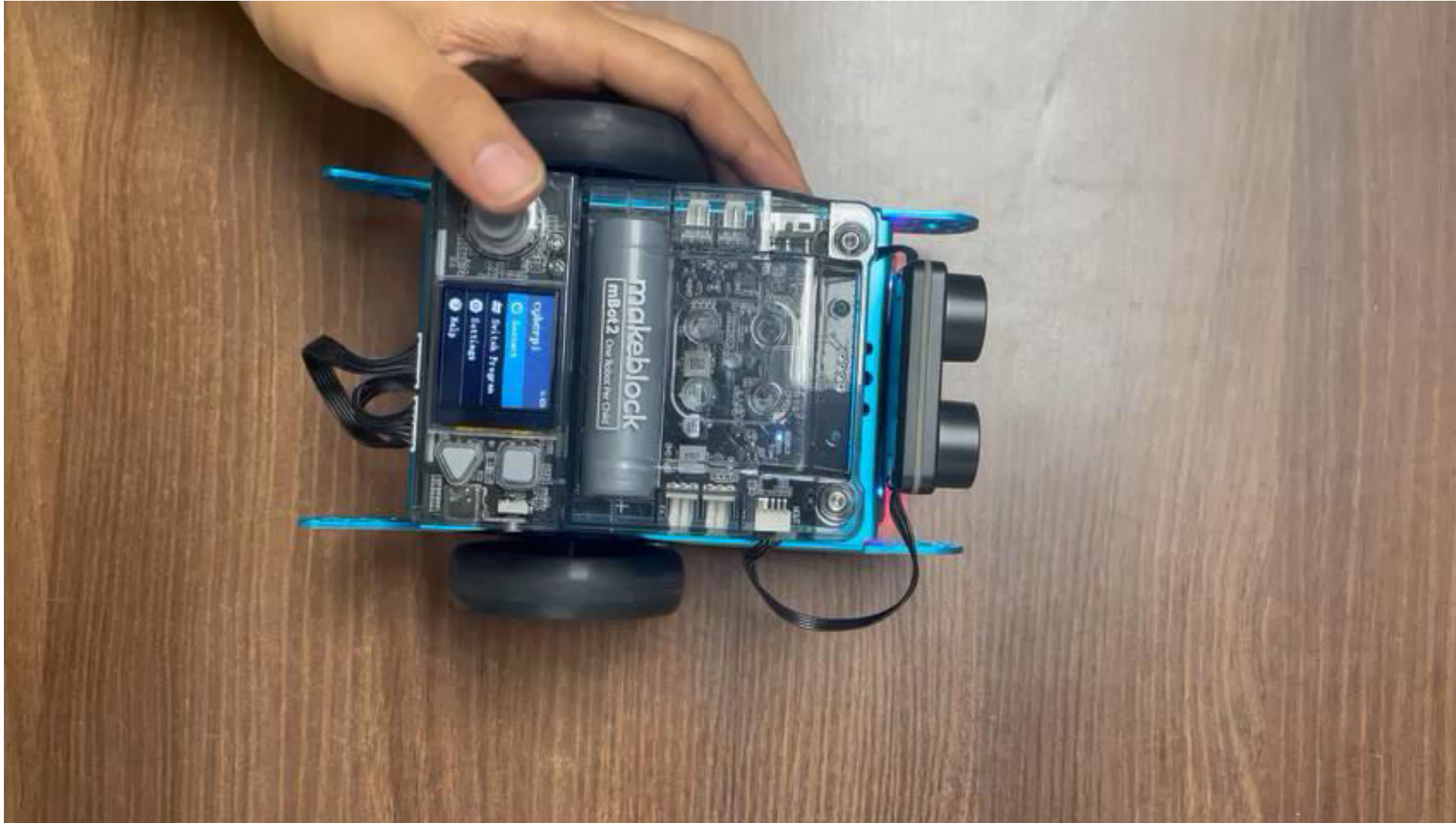


Project :Speech controlled robot navigation

Let us watch this
video.....



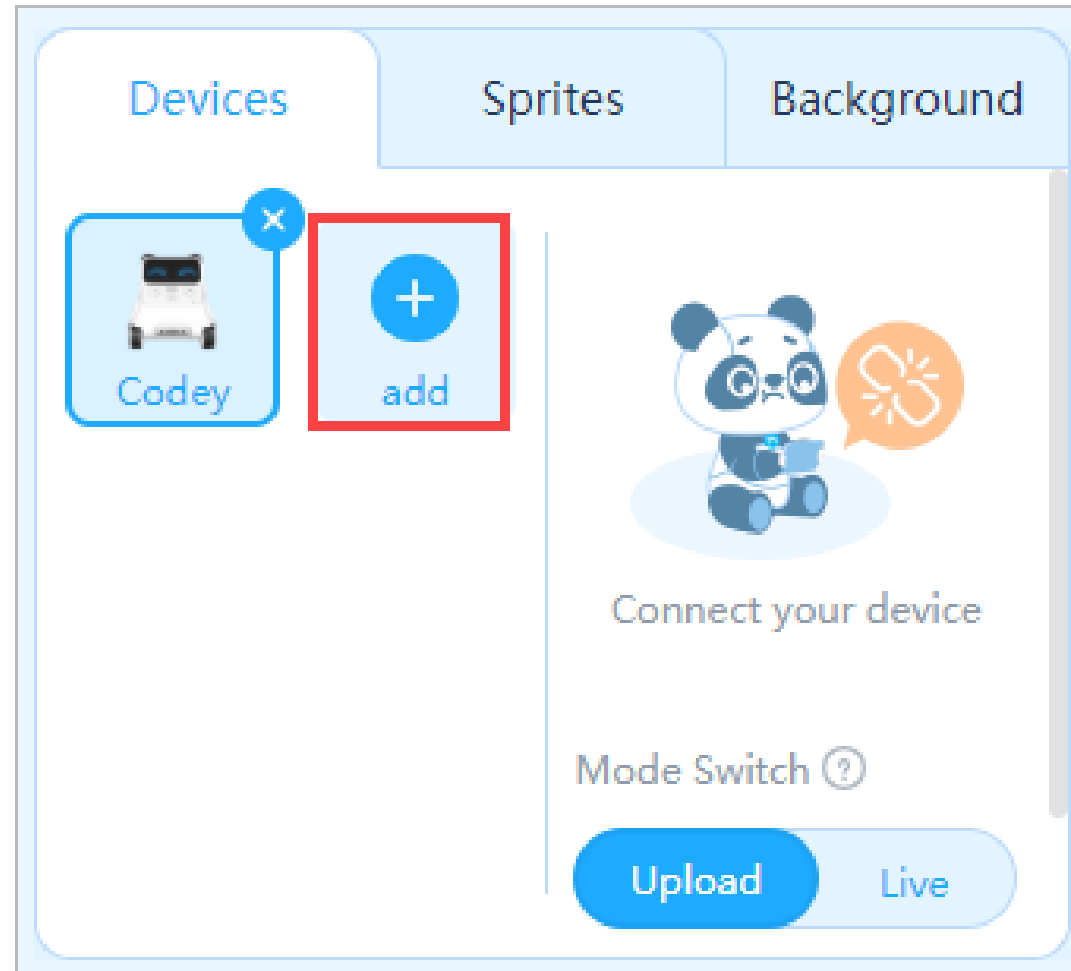
What did we see?

Observations:

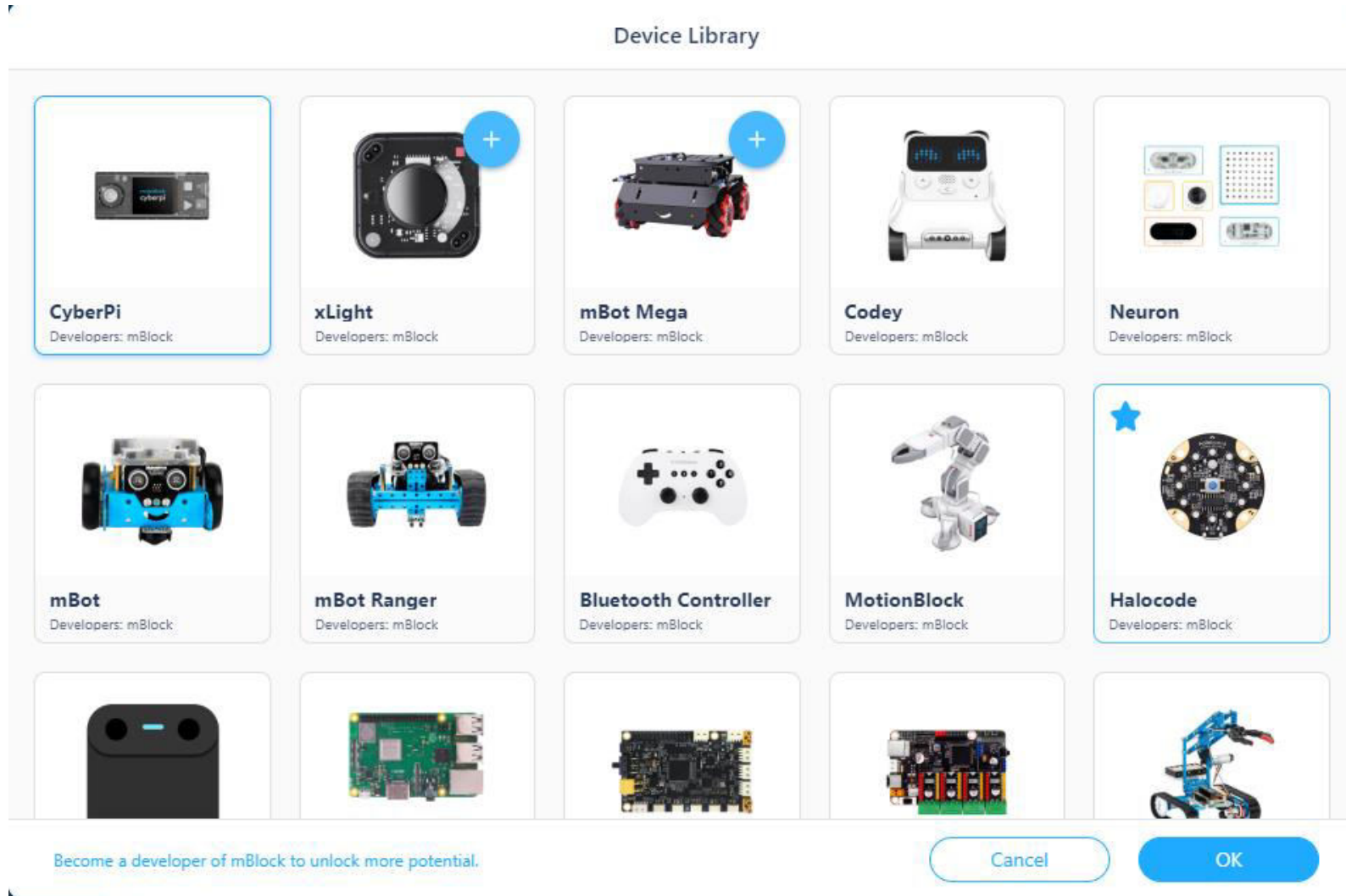
- When mBot is connected with wifi, robot is recognising the voice for 2 sec and is performing the action given by the user to robot.
- The robot is recognising forward, backward, left, right command to move the robot

Steps to make a program

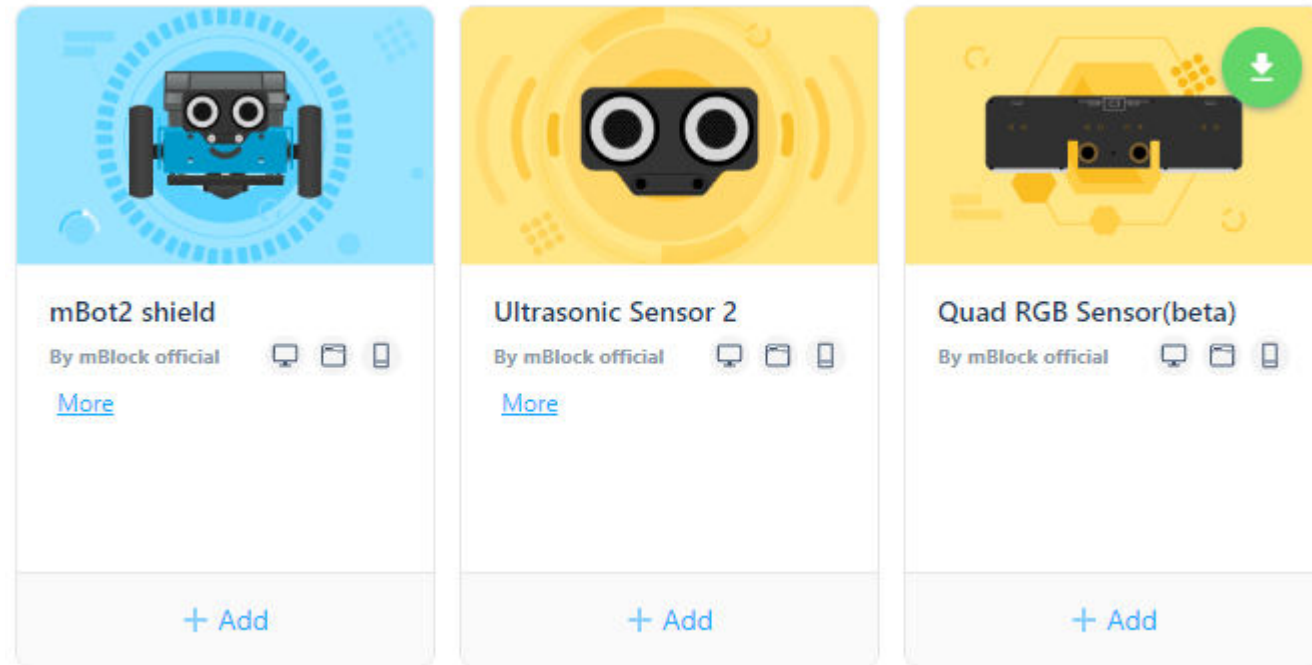
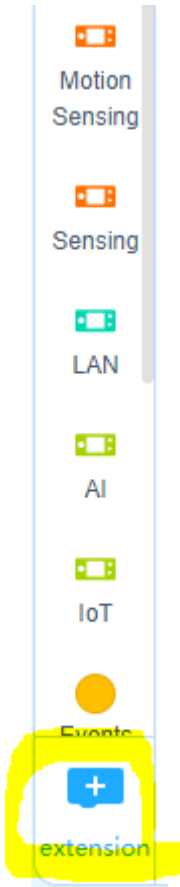
Step 1: Open mBlock Software. Go to Devices tab and click on the add button.



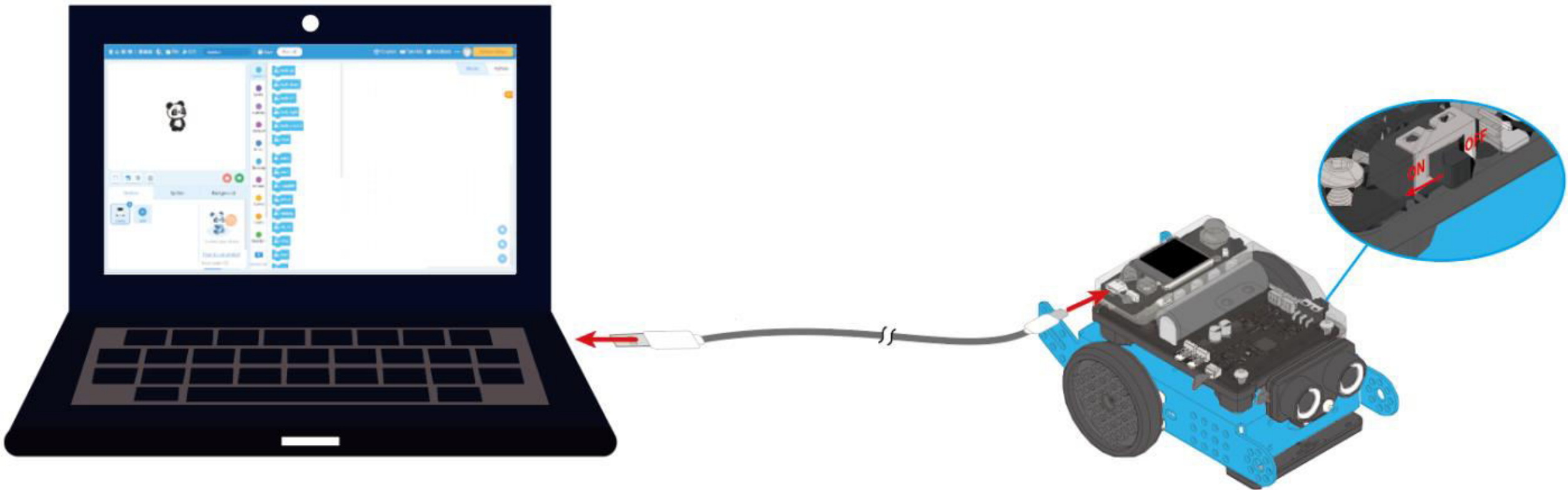
Step 2: Select CyberPi as a device to program it.



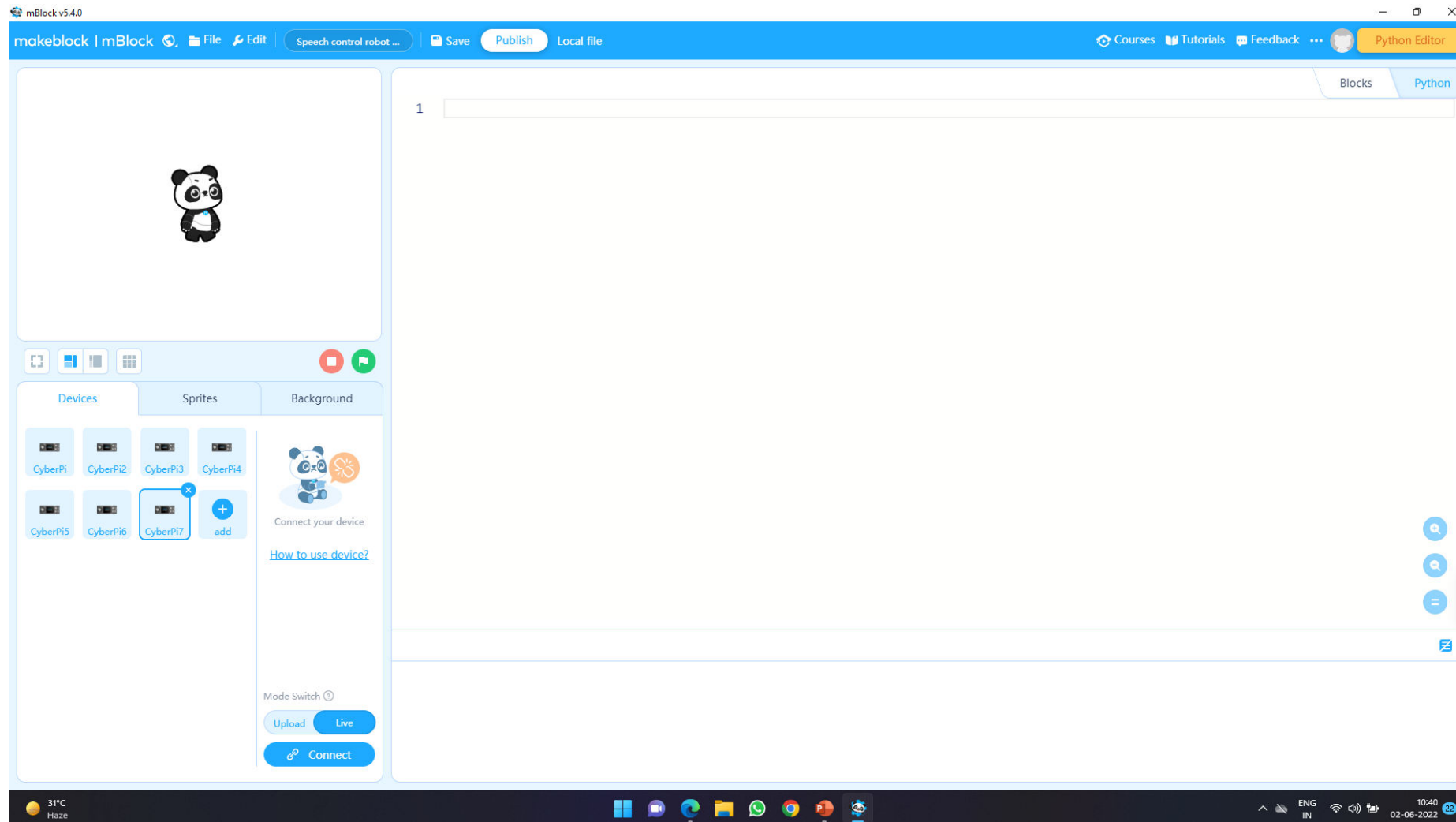
Step 3: Now, click on the extension and add following extensions one by one



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 python program for speech controlled robot navigation.

```
1  #Speech Control Robot Navigation
2  import event, time, cyberpi, mbot2
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 give directions')
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('forward')) > -1:
24              mbot2.forward(50, 1)
25
26          if str(cyberpi.cloud.listen_result()).find(str('backward')) > -1:
27              mbot2.backward(50, 1)
28
29          if str(cyberpi.cloud.listen_result()).find(str('left')) > -1:
30              mbot2.turn_left(50, 1)
31
32          if str(cyberpi.cloud.listen_result()).find(str('right')) > -1:
33              mbot2.turn_right(50,1)
34
```

Thank you!