21. Case 19: Sweeper
21.1. Purpose

- Build a TPBot sweeper.

21.2. Material

- 1 x TPBot Smart Car

21.3. Hardware Connection

Connect the 360 degrees servo to servo 1 port on TPBot. (Servos are not included in our TPBot kit)
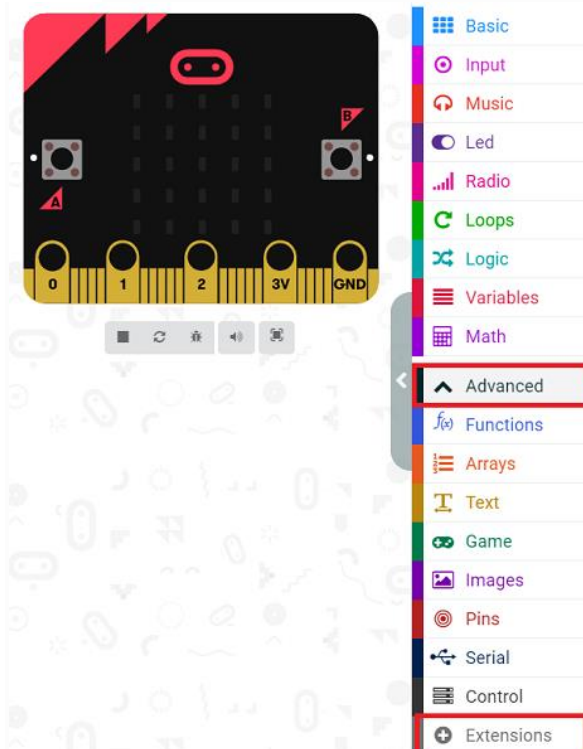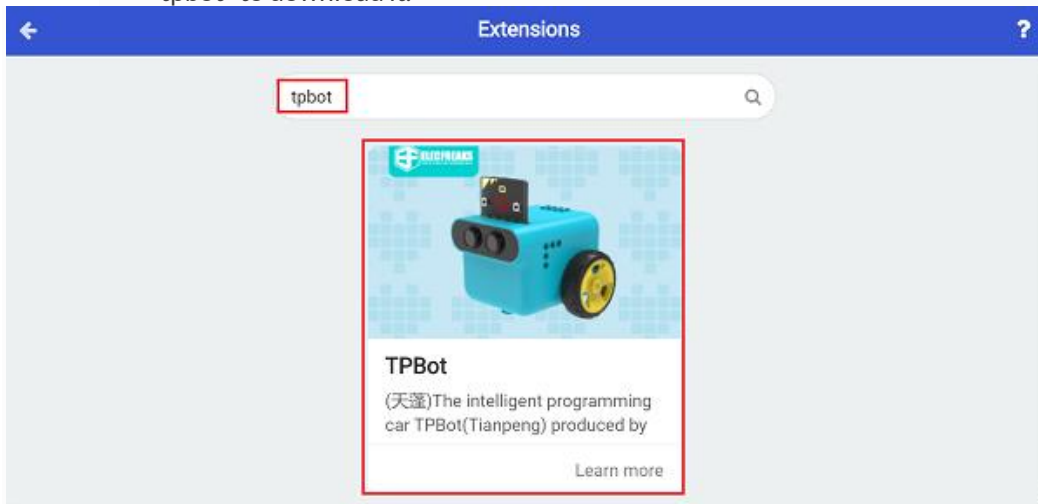

21.4. Software

MicroSoft makecode

21.5. Programming

- Click "Advanced" in the MakeCode drawer to see more choices.

- We need to add a package for programming. Click "Extensions" in the bottom of the drawer and search with "tpbot" to download it.

##Sample

- Drag the show icon brick in the on start and set the car to move forward at the speed of 30%; in forever brick, set the servo connecting to S1 rotate to 180 degrees and pause for 1000ms, and set it rotate to 0 degree and pause for 1000ms.

Link
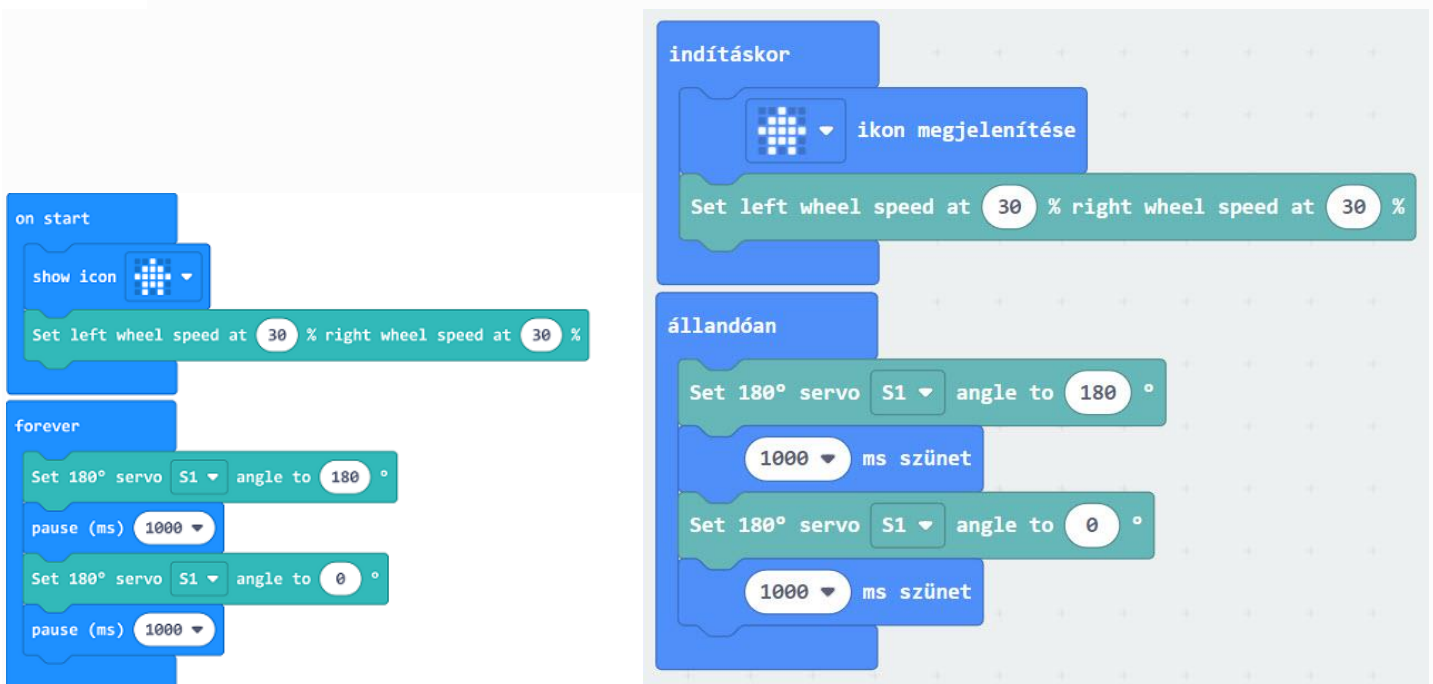
- Link：https://makecode.microbit.org/_664VpuAVMcCa
- You may also download it directly below:

-- --- ## Conclusion ---

The car move forward with the servo rotating.

21.7. FAQ

Q: The car cannot move with the code in this case? A: It might be a lack power of the battery, please add the value of the parameter for the speed of the car and test it.