3. Case 01: Running Control
3.1. Purpose

- Learn to control the movement of TPBot via programming.

3.2. Materials

- 1 x TPBot

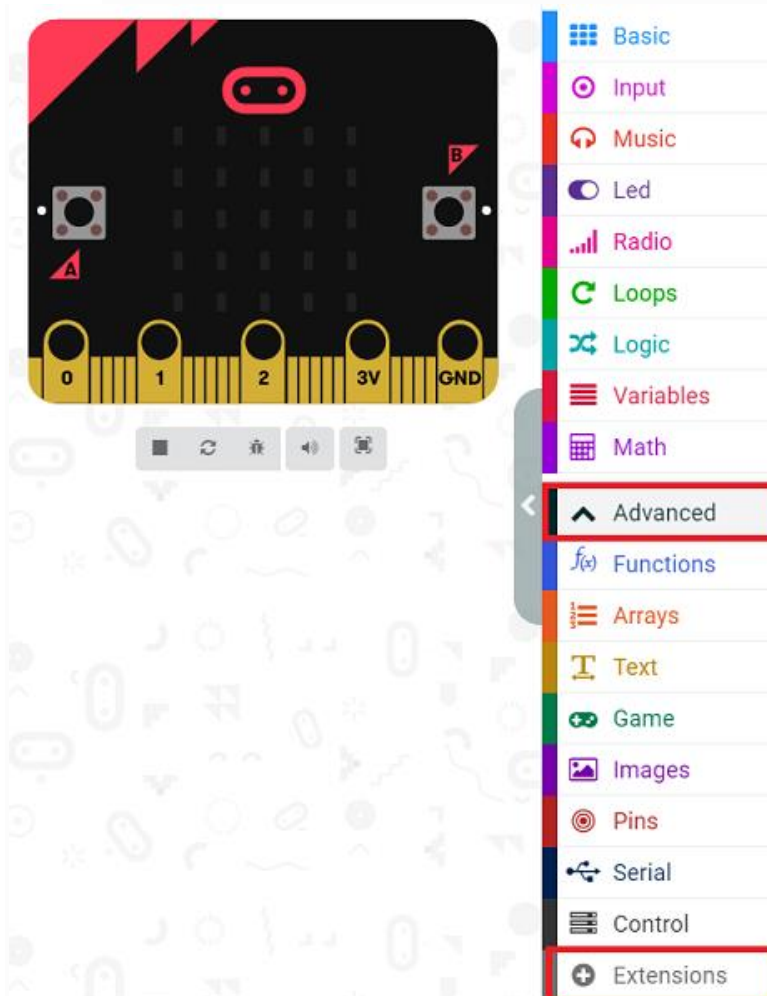### 3.3. Software

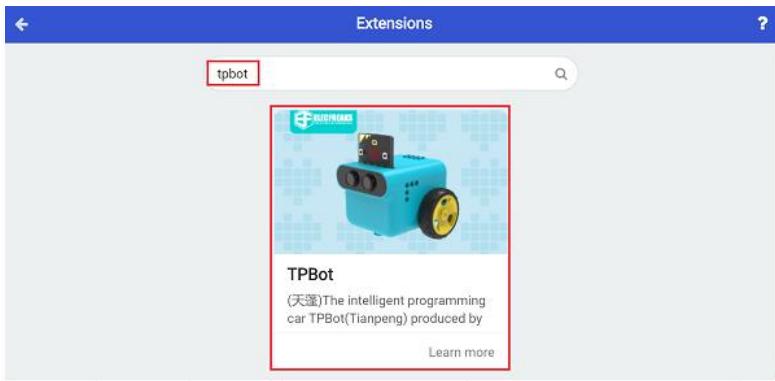MicroSoftmakecode
3.4. Programming

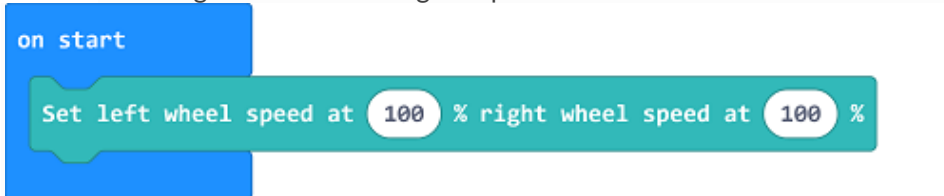- Click "Advanced" to see more choices in the MakeCode drawer.

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

Sample A

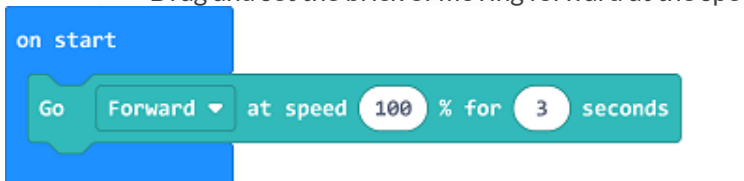- Drag the brick of setting the speed in both 100 for both wheels of TPBot into the "On Start".

Link

- Link: https://makecode.microbit.org/_0r5C5L029L9m
- You may also download it directly below:

3.5. Conclusion

- TPBot keeps moving forward.

Sample B

- Drag and set the brick of moving forward at the speed of 100 and lasting for 3 seconds into the "On Start".
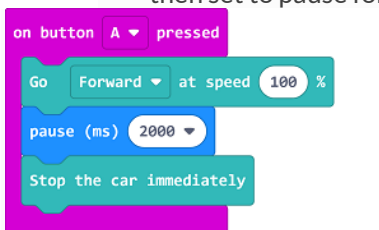

Link

- Link: https://makecode.microbit.org/_XXH3yP66oRRp
- You may also download it directly below:

3.6. Conclusion

- TPBot moves forward at full speed for 3 seconds and then stops.

Sample C

- Drag and set the brick of moving forward at the speed of 100 into the brick of "while button A being pressed", then set to pause for 2000ms, and drag the stops immediately brick as the pic says.

Link

- Link: https://makecode.microbit.org/_6i4awR07MA7E
- You may also download it directly below:

3.7. Conclusion

- While button A being pressed, TPBot moves forward at the full speed for two seconds and then stops.