4. Case 02: Light Control

4.1. Purpose

• Programme to control the colour of the LED lights.

4.2. Material



4.3. Software

<u>MicroSoftmakecode</u>

4.4. 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

- The LED headlights are in black while on start, and the micro:bit shows an icon.
- Press button A to make the LED headlights show red.
- Press button B to make the LED headlights show blue.
- Press button A+B to make the LED headlights show green.



Link

- Link: <u>https://makecode.microbit.org/ 0RM5AJgos7C5</u>
- You may also download it directly below:

4.5. Conclusion

- Control the colour of the headlights with the buttons.
- Press button A to make the LED headlights show red.
- Press button B to make the LED headlights show blue.
- Press button A+B to make the LED headlights show green.

##Sample B

• While on start, set the micro:bit showing an icon and the LED headlights in red for 2 seconds and then turning off

on start	indításkor en
show icon	ikon megjelenítése
Set headlight color to R: 255 G: 255 B: 255	Set headlight color to R: 255 G: 255 B: 255
pause (ms) 200 -	200 💌 ms szünet
Turn off the headlights	Turn off the headlights + + + + + +

Link

- Link: <u>https://makecode.microbit.org/ P5cJ7oV1664J</u>
- You may also download it directly below:

4.6. Conclusion

• The micro:bit displays an icon while on start and the LED headlights of the TPBot show white for 2 seconds and then turn off.