

7. Case 05: Automatic Lamp

7.1. Purpose

- Programme to turn on the lights automatically in the darkness.

7.2. Material

- 1 x [TPBot](#)

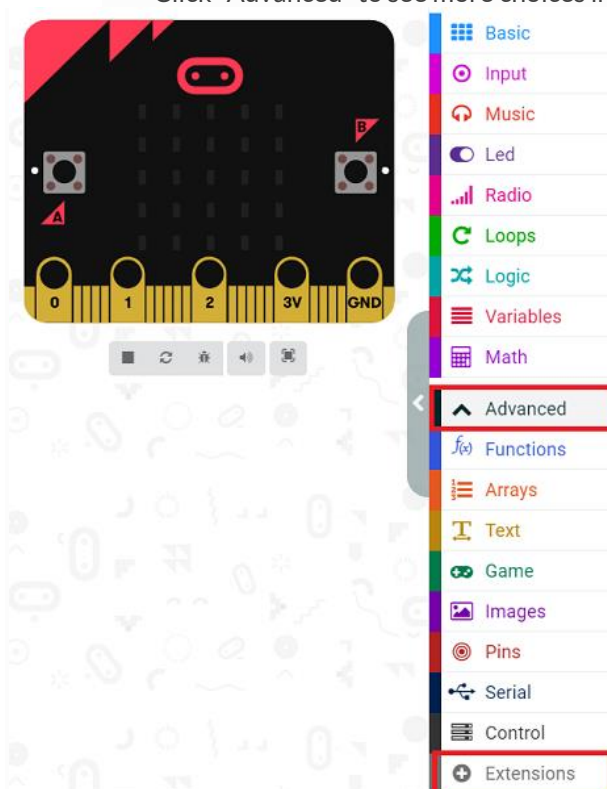


7.3. Software

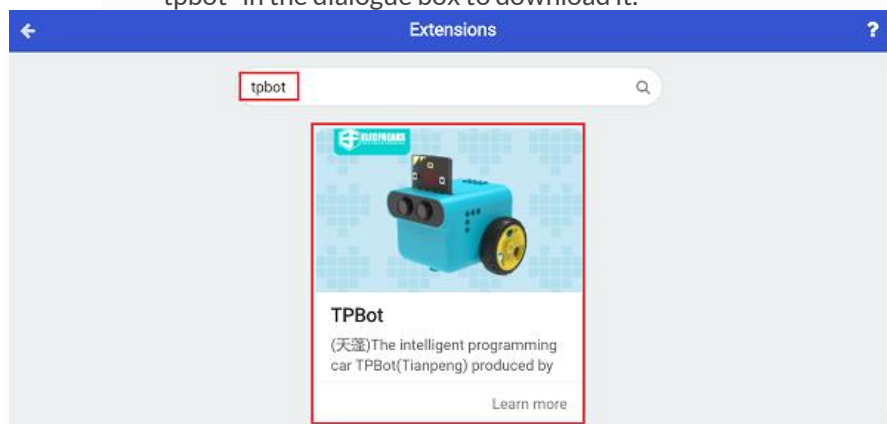
[MicroSoftmakecode](#)

7.4. Programming

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

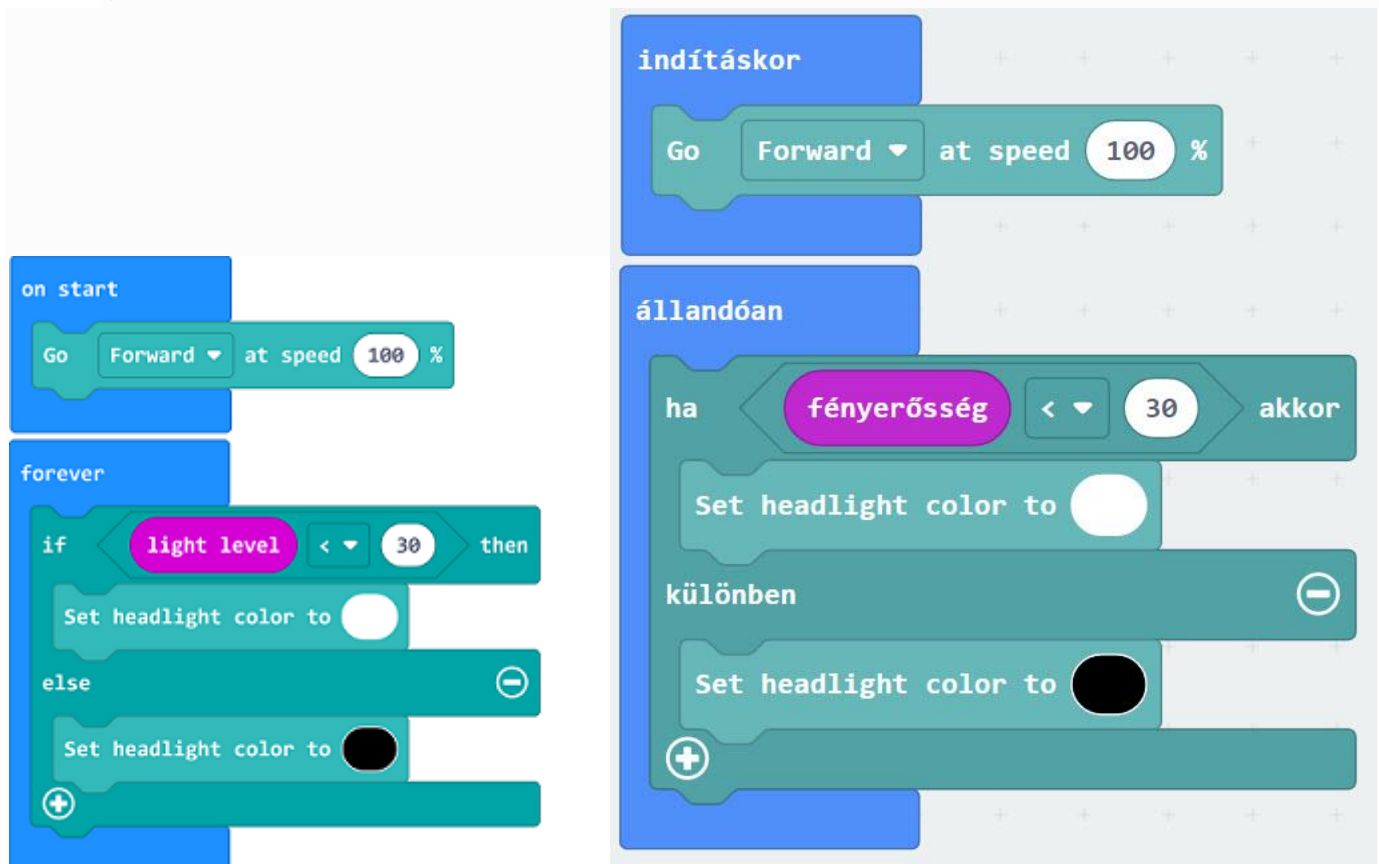


- We need to add a package for programming. Click “Extensions” in the bottom of the drawer and search with “tpbot” in the dialogue box to download it.



##Sample

- Set to move forward at the speed of 100%.
- Judge if the current light intensity is below the set point, if yes, set the headlights in white; or in black.
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Link

- Link: <https://makecode.microbit.org/4Wm85b3K4ikU>
- You may also download it directly below:

7.5. Conclusion

- Power up to set the TPBot driving forward and turning on/off the headlights automatically while it goes into the dark/bright area.