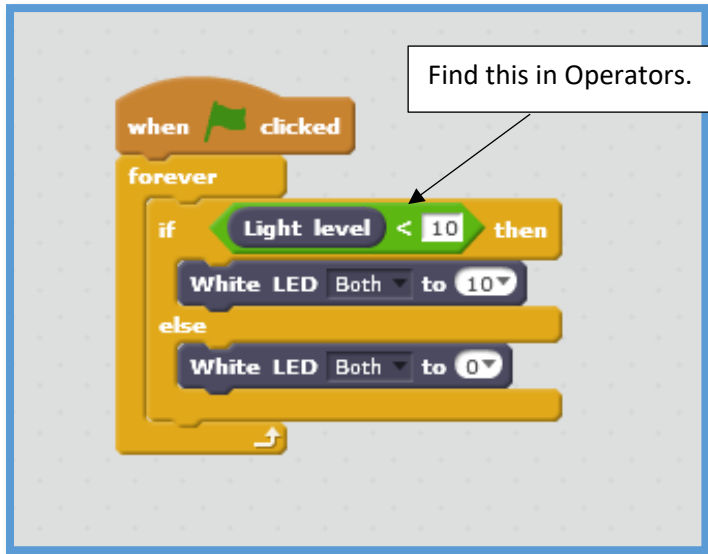


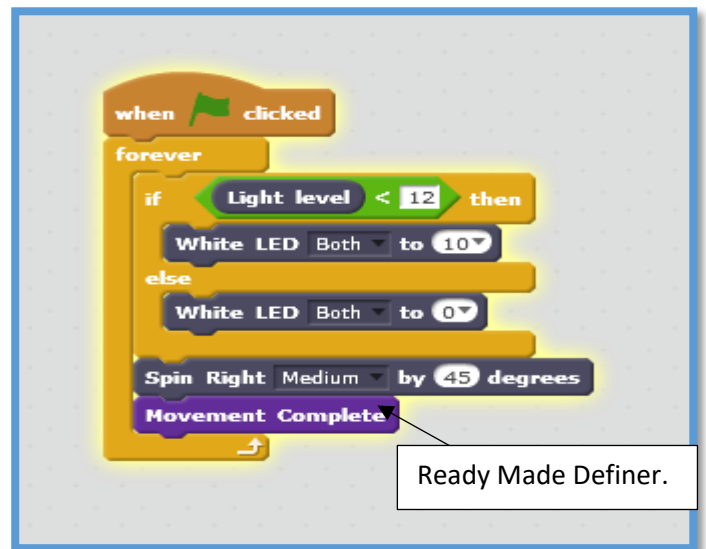
Light Detector

Have you ever wondered how automatic headlights or streetlights know when to come on? Let's program InO-Bot to detect light levels.



1. **Build** this algorithm.
2. Make sure you use the 'less than' block.
3. We use 'if/else' so there are **two** possible actions – headlight on and off.
4. Put you hand in front of the headlights. What happens if you **block the light** getting to the light sensor?

1. Now add **SPIN RIGHT** and **MOVEMENT COMPLETE**.
2. **Change** the light level number.
3. What could you change about the way it **moves**? (Speed, angle....)
4. Why might it be **useful** for the light detector to turn?



1. Get an 'IF' block.
2. Use the = Operator block. **Set** the light level as = 10.
3. **Add in a sound** using a SOUND block. You can select or record a sound to add.
4. Put the 'IF' block into the **FOREVER** loop.
5. What happens if the light level = 10?
6. **Experiment** with other light level numbers.
7. **What might you need to change** if you put the InO-Bot under the desk or by a window?