

Light Sensor (Nighttime Dance Party!)

Time required: 45 minutes

Introduction of the Light Sensor

Sensors are used to detect events or changes in the environment and send information to the electronic components of other electronic devices. While the program is running and debugging, it is often required to collect real-time sensor values to help us understand the environment light, sound, distance and other information.

Light sensor value range: 0~1000, exposed under sunshine (> 500), evening (0 ~ 100), lighting (100 to 500).

The following program will give you a robot bedtime dance party!

Tutorial Assignment

1. Start mBlock. Save the program as **Light Sensor (Bedtime Dance Party!)**.
2. Complete and test the program as pictured with the requirements listed.

Requirements

- The program will run when you press the robot's remote control.
- There will be variety in movement, sights and sounds.
- The dance will start when the lights go out, and stop when the lights turn on.



Assignment

Start with your tutorial project and add the following.

- Get creative and create your own version of Bedtime Dance Party!

Assignment Submission

- **All students** → Attach finished programs to the assignment in Blackboard.
- **In class assignment submission** → Demonstrate in person.
- **Online submission** → A link to a YouTube video recording showing the assignment placed in the submission area in BlackBoard.