

# Introduction

mBlock is a graphical programming environment that is specially designed for beginners to easily program Arduino projects.

## Getting started

### mBlock

Download mBlock from <http://www.mblock.cc>

### Arduino kit

## Blinking LED

*What is an LED?*

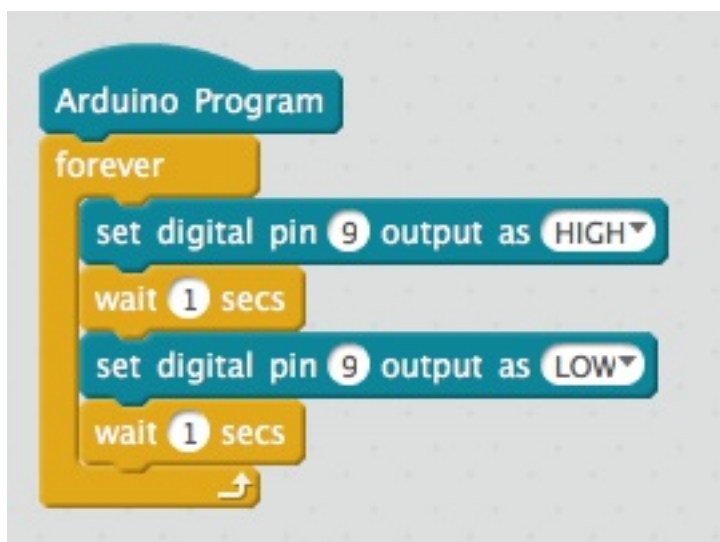
*What is the end result of this experiment?*

## Required parts

Component	Quantity
LED	1
Resistor	1
Jumper wires	3

## Circuit Diagram

## mBlock Code



## Potentiometer

*What is a Potentiometer?*

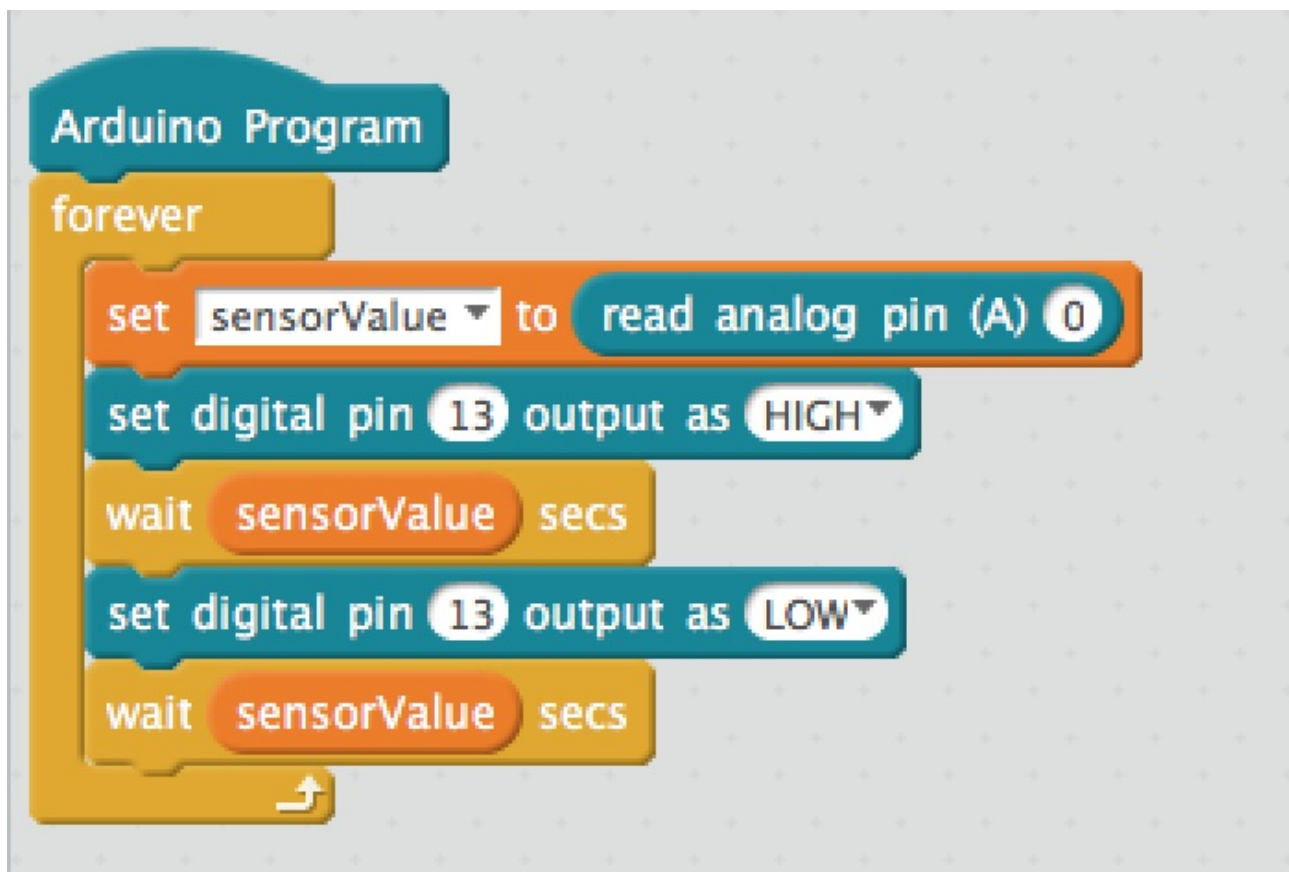
*What is the end result of this experiment?*

## Required parts

Components	Quantity
Potentiometer	1
LED	1
Resistor	1
Jumper wires	1

## Circuit Diagram

## mBlock Code



# RGB LED

*What is an RGB LED?*

*What is the end result of this experiment?*

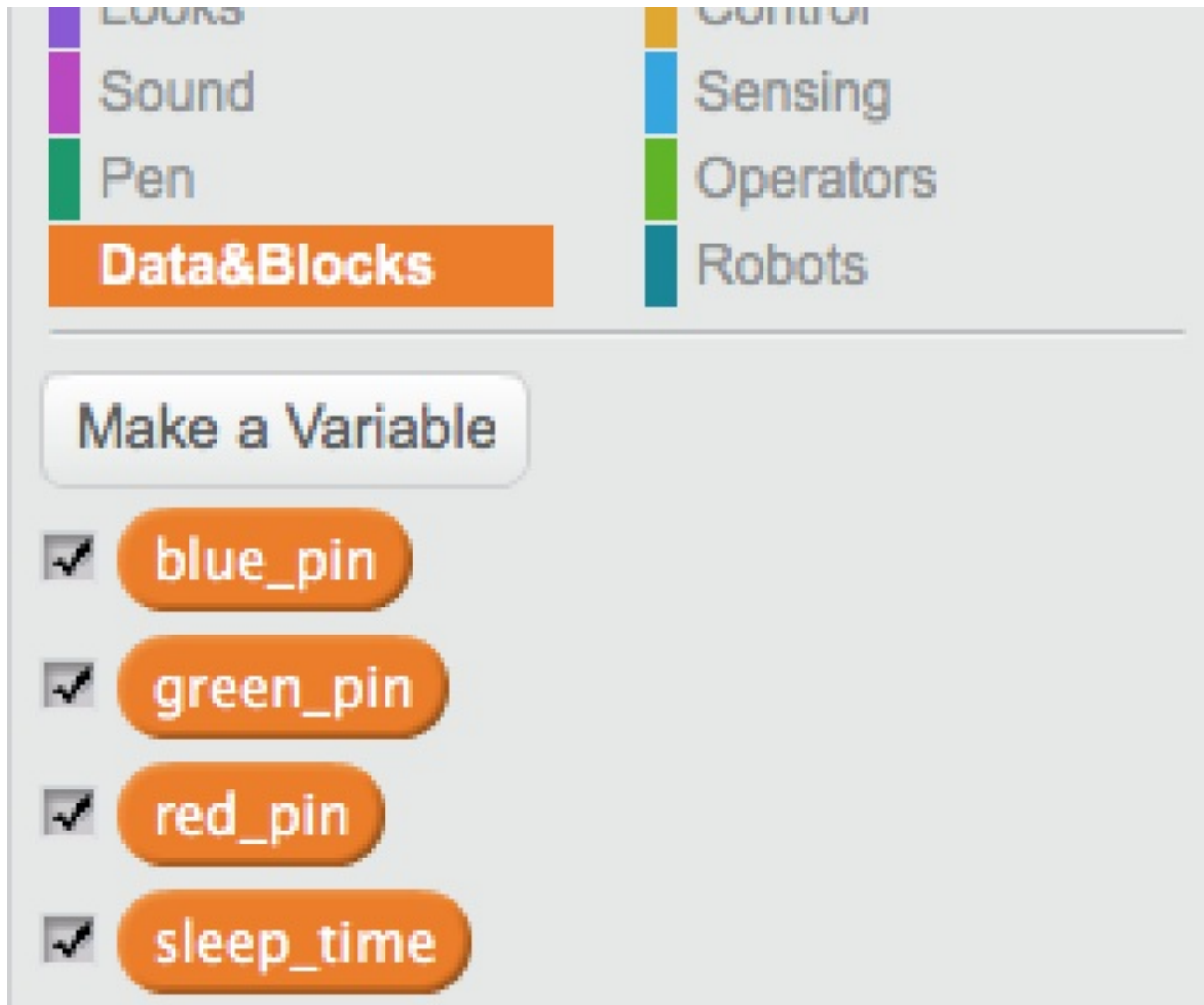
## Required parts

Component	Quantity
RGB LED	1
Resistor	3
Jumper wires	6

## Circuit Diagram

## mBlock Code

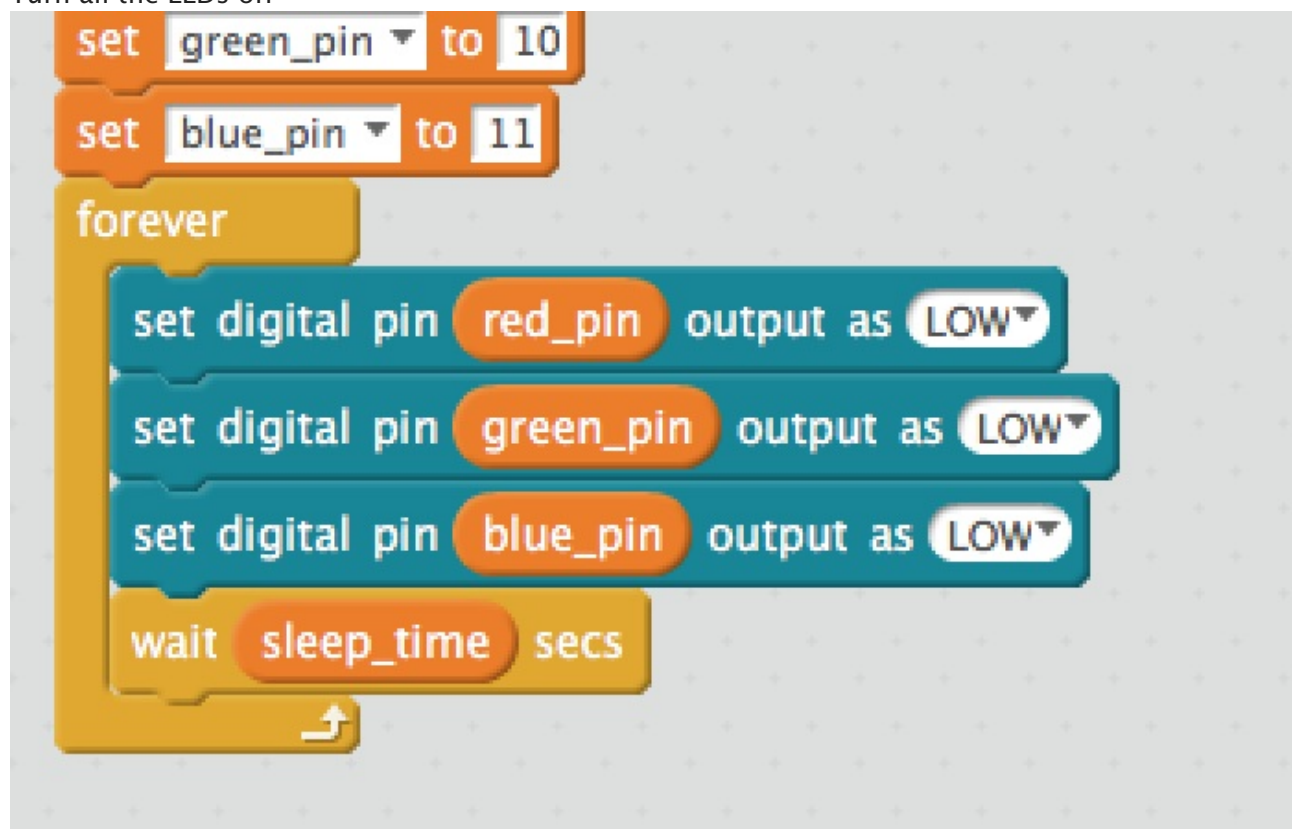
Create variables



Assign variables



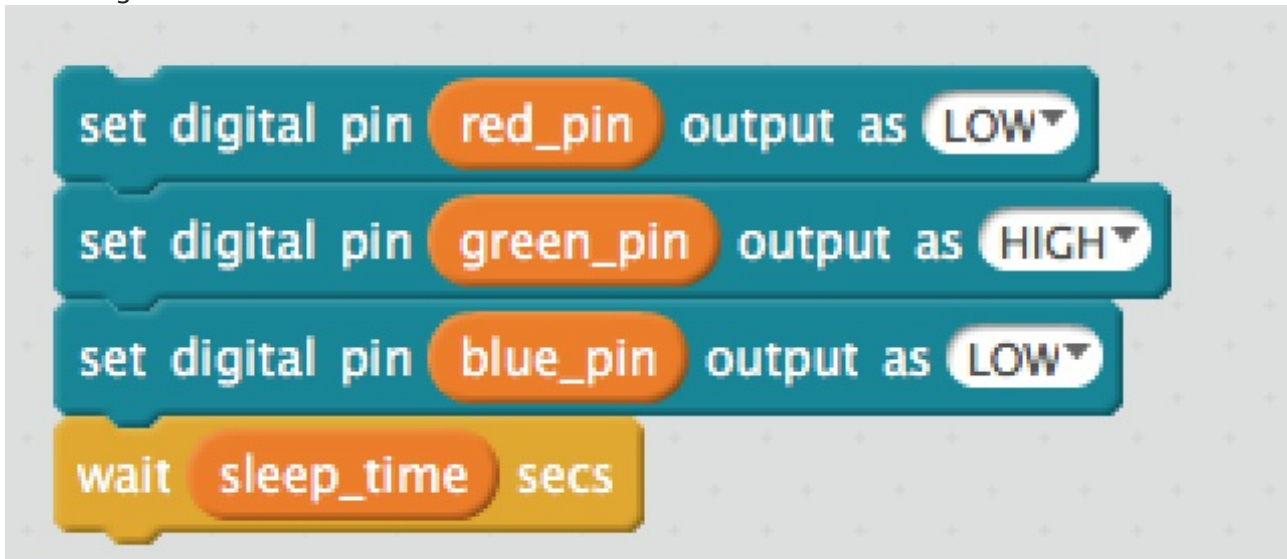
Turn all the LEDs off



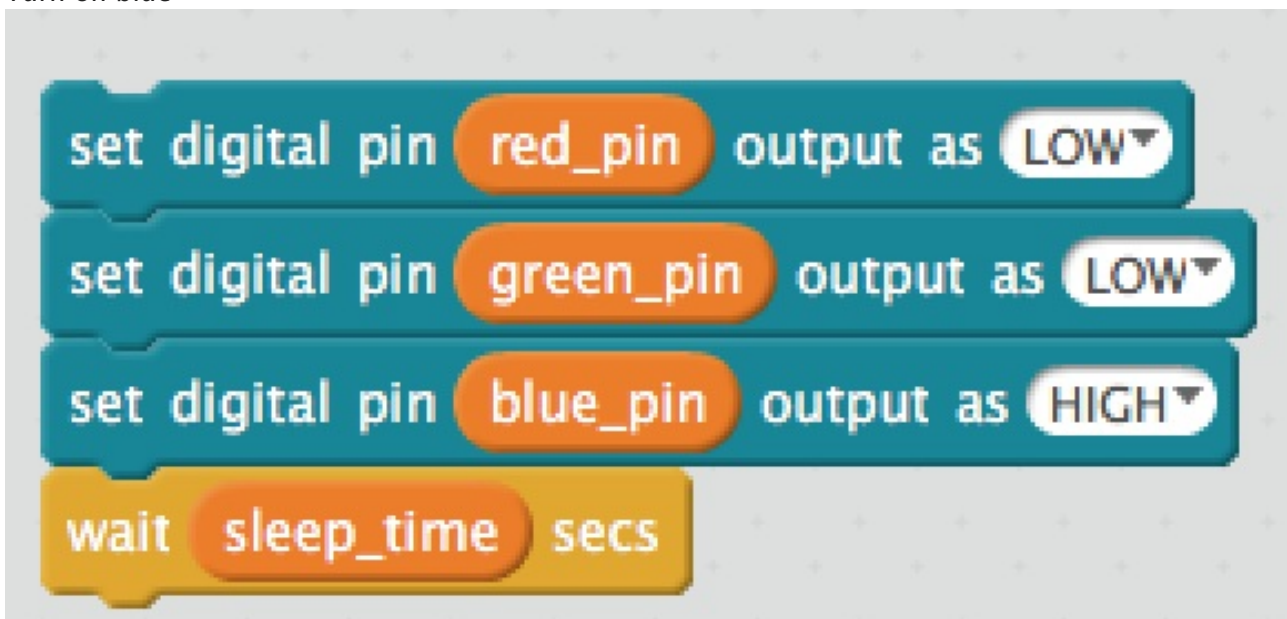
Turn on red



Turn on green



Turn on blue



**Red and Green**

**Red and Blue**

**Green and Blue**