

# Yellow Light

Code walkthrough

## Set constants

Set your constants at the top of the page. A constant will never change the pins will always be linked to them and if we change it we have to change the code.

```
Const int buttonPin = 2; Push button pin
```

```
Const int ledPin = 13; LED pin
```

## Set Variables

Set your variables after your constants. A variable has the ability to change if you set it to. When push button status is false it does nothing but when it is true the yellow light turns on.

```
Int buttonState = 0; Reads button status
```

## Functions

C++ has different types of functions this one only uses void. Void is a function with no return value.

### Setup Function

```
void setup() {  
  pinMode(ledPin, OUTPUT); Sets pin 13 as an output so the LED will light up when told.  
  pinMode(buttonPin, INPUT); Sets pin 2 as an input waiting for a value.  
}
```

### Loop Function

```
void loop() {  
  buttonState = digitalRead(buttonPin); Always reading and waiting for the button state to change  
  if (buttonState == HIGH){ When the button state is high  
    digitalWrite(ledPin, HIGH); Make the LED turn on  
  } else { Anything else  
    digitalWrite(ledPin, LOW); Turn it off  
  }  
}
```