





Digital Input and Output	
Set a digital pin (number X) to be an input	<code>pinMode (X, INPUT) ;</code>
Set a digital pin (number X) to be an output	<code>pinMode (X, OUTPUT) ;</code>
Write a low value to digital pin X	<code>digitalWrite (X, LOW) ;</code>
Write a high value to digital pin X	<code>digitalWrite (X, HIGH) ;</code>
Read the input from a pin X (when it is configured INPUT)	<code>int val = digitalRead (X) ;</code>
Analog Input and Output	
Writing an analog value to a digital pin (PWM)	<code>analogWrite (pin, value) ;</code>
Reading from an analog pin (0 to 6)	<code>val = analogRead (pin)</code>
Delay Function calls	
Delay for M milliseconds	<code>delay (M) ;</code>
Delay for M microseconds	<code>delayMicroseconds (M) ;</code>
Using the Serial Monitor	
Setup the Serial Monitor	<code>Serial .begin (9600) ;</code>
Write the value of a variable to the Monitor	<code>Serial .print (val) ;</code>
Write the value of a variable to the Monitor with LF	<code>Serial .println (val) ;</code>
Miscellaneous Functions	
Play a note (tone) of frequency var for 500 ms on pin 13	<code>tone (13, var, 500) ;</code>
Change the range of variable v1 to v2 v1 has range 10 to 20 (let's say) v2 will have range 0 to 200	<code>v2 = map (v1, 10, 20, 0, 200) ;</code>
Limit (constrain) a variable to a range eg 2 to 100	<code>v2 = constrain (v1, 2, 100) ;</code>