Software Reference

Motor/Light Commands

a,	*Selects motor/light a*
b,	*Selects motor/light b*
ab,	*Selects both motors*
on	*Turns on the motor/light*
off	*Turns off the motor/light*
onfor *x*	*Turns on for x tenths of secs*
thisway	*Motor direction defined on initial Cricket startup*
thatway	*Opposite motor direction*
rd	*Reverse direction*
setpower *x*	Sets power level 0-8; default is 4

Example statements:

a, on	*Turns motor or light*
b, setpower 2	*Sets the power to 2*
c, onfor 10	*Turns c on for 1 second*
d, off	*Turns d off*

Sensor Commands

switcha	*Reports the state of the switch, as true or false, in the 'a'port on the Cricket; replace 'a' with 'b' through 'f' depending on what port the switch is in*
sensora	*Reports the sensor value, between 0 and 255, in the 'a'port on the Cricket; replace 'a' with 'b' through 'f' depending on what port the sensor is in*

Sound Commands

beep	*Plays a short beet*
note *pitch x*	*Plays a note of defined pitch for x tenths of secs*

Example statement:

note 119 10	*Plays C note for 1 second*

Control Examples

repeat *x* [*body*]	*Repeats execution of the code statements in body for x number of times*
loop [*body*]	*Continually executes the code in body*
if *condition* [*body*]	*If the condition is true, the code in body is executed*
ifelse *condition* [*body1*] [*body2*]	*If the condition is true, the code in body1 is executed; otherwise the code in body2 is executed*
waituntil [*condition*]	*Repeatedly checks the condition statement until it is true*
when [condition] [body1] **loop [body2]**	*The body2 code is continually executed but is interrupted when the condition is true, then executes the body2 code*

Example code:

To flippy
  Repeat 10 [a, onfor 10 rd]
end
	To flippy-forever
	  loop [a, onfor 10 rd]
	end
	-- 	
	To flippy-forever
	  A, onfor 10 rd
	  flippy-forever
	end
		to on-wait
		  a, on
		  Waituntil
		[switchb]
		   off
		end
			to switch-controls
			  a, on
			  loop [
			    ifelse switchb
			     [thisway]
			     [thatway]
			  ]
			end

Refer to http://handyboard.com/cricket/program/ for the full program manual.