## CamJam EduKit - Sensors (Written for IDLE 3)

#import GPIO library

#import time library

#### Start:

- 1. Setup and assemble the Raspberry Pi (RPi) environment:
  - a. Connect RPi to a monitor, keyboard and mouse
  - b. Power up the RPi module
  - c. Observe the start-up script
- 2. Login and enter password

Import RPI.GPIO as GPIO

- 3. Open the LXTerminal and enter sudo idle3
- 4. Click on File and Open New Window
- 5. Click on File and Save As and name it 2-LEDBuzz.py

### Coding:

# 1. Import libraries

Import time

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2. Type in the following code	
GPIO.setmode(GPIO.BCM)	# Each pin on the Pi has several #different names, so you need to #tell the program which naming #convention is to be used
GPIO.setwarnings(False)	#This tells Python not to print #GPIO warning messages to the screen
GPIO.setup(18, GPIO.OUT) GPIO.setup(24, GPIO.OUT) GPIO.setup(22, GPIO.OUT)	<pre># These three lines are telling the #Python interpreter that pins 18, 24 and #22 are going to be used for outputting #information, which means you are going #to be able to turn the pins 'on' and #'off'</pre>
<pre>print("Lights and sound on")</pre>	#Print a statement on the screen
GPIO.output(18, GPIO.HIGH) GPIO.output(24, GPIO.HIGH) GPIO.output(22, GPIO.HIGH)	<pre># These three lines turn the GPIO #pins 'on'. This is enough to turn #on the LEDs and make the buzzer #sound</pre>
time.sleep(1)	<pre>#Pauses the running of the code for one #second</pre>
<pre>print("Lights and sound off")</pre>	#Prints a statement on the screen
GPIO.output(18, GPIO.LOW) GPIO.output(24, GPIO.LOW) GPIO.output(22, GPIO.LOW)	<pre># To turn the LEDs off, you need to #replace the GPIO.HIGH with GPIO.LOW. #This will turn the pins off so that #they no longer supply any voltage.</pre>
GPIO.cleanup()	#will reset the status of any GPIO pins

### Save and run the code

#when you exit the program