New command for raspberry pi which allow to view the GPIO pin layouts: Open a termial and type “pinout”

:This will provide a layout within the terminal of the current raspberry pi pins.

Then head over to <https://sourceforge.net/p/raspberry-gpio-python/wiki/Examples/> to view documentation about how python interfaces with the raspberry pi.

You’ll want to enter the python program inside the terminal and then import **import** **RPi.GPIO** **as** **GPIO (note if you leave or exit the python program you will need to reimport the above step)**

**Before beginning you must specify the pin layout you will be using this means you will need to execute** GPIO.setmode(GPIO.BOARD)

**Next select Channel Type (note if using In you are saying you want the pin to read whether something is high or low so Out is when you want something to read whether a pin is high or low and this means you can set the pin as either high or low)**

GPIO.setup(channel, GPIO.OUT, initial=GPIO.HIGH) here channel is equal to the number ie: only the whole number without any letters indicated on the pinout layout) To check this you will you will put multimeter on the pin with the red probe on the channel you changed and the black probe onto ground) If the channel is set to high then red probe should read out a value greater than 0 if the channel is set to one then the red probe should read out 0)

Now we will work with the PWM/PCM please enter the termial and type pinout and refer to the website pinout.xyz to see which pins are listed as PWM.

Frequency tells us how long the square wave is

<https://sourceforge.net/p/raspberry-gpio-python/wiki/PWM/>

have

making and LED throb refer to this website for information: <https://electronicshobbyists.com/raspberry-pi-pwm-tutorial-control-brightness-of-led-and-servo-motor/>