Assignment-3

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Python code for blinking LED

Import time

Import RPi . GPIO as GPIO

GPIO . setmode(GPIO.BOARD)

GPIO.setup(11, GPIO.OUT)

while true:

      GPIO.output11, True)

      time.sleep(1)

      GPIO.output(11,False)

      Time.sleep(1)

Python code for traffic lights for Raspberry Pi

Import RPi.GPIO as GPIO

Import time

Import signal

Import sys

GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO . OUT)

GPIO.setup(10, GPIO . OUT)

GPIO.setup(11, GPIO . OUT)

def alllightsoff(signal,frame):

      GPIO.output(9,false)

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        GPIO.output(10,false)

        GPIO.output(11,false)

        GPIO.cleanup()

        Sys.exit(0)

Signal.signal(signal.SIGINT,alllightsoff)

while true:

#red

        GPIO.output(9,true)

        time.sleep(3)

#red and amber

        GPIO.output(10,true)

        time.sleep(1)

#green

        GPIO.output(9,false)

        GPIO.output(10,false)

        GPIO.output(11,true)

        time.sleep(5)

#amber

        GPIO.output(11,false)

        GPIO.output(10,true)

        time.sleep(2)

#amber off

        GPIO.output(10,false)
```