# IBM ASSIGNMENT : 3

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| **TEAMID** | PNT2022TMID17666 |
| **PROJECTNAME** | IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND  NOTIFICATION |
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ASSIGNMENT-3

# PYTHONCODEFORBLINKINGLED AND TRAFFIC LIGHTS BY USING RASPBERRY PI

importRPi.GPIOasGPIO#ImportRaspberryPiGPIOlibrary fromtime importsleep#Importthesleepfunctionfromthetimemodule

GPIO.setwarnings(False) # Ignore warning for nowGPIO.setmode(GPIO.BOARD)#Usephysicalpinnumbering

GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW) #Setpin8 to beanoutputpinandset initialvaluetolow(off)

while True: # Run foreverGPIO.output(8, GPIO.HIGH) # Turn onsleep(1) # Sleep for 1 secondGPIO.output(8, GPIO.LOW) # Turn offsleep(1)# Sleepfor1second

import RPi.GPIO asGPIOimporttime

import signalimpor tsys

#

SetupGPIO.setmode(GP IO.BCM)GPIO.setup(9, GPIO.OUT)GPIO.setup (10, GPIO.OUT)GPIO.setup (11,GPIO.OUT)

# Turn off all lights when user ends demodef allLightsOff(signal,frame):

GPIO.output(9, False)GPIO.output(1 0,False)GPIO.output (11,False)GPIO.clea nup()sys.exit(0)

signal.signal(signal.SIGINT,allLightsOff)

# Loop foreverwhile True:

#RedGPIO.output( 9,True)

time.sleep(3) # Red and

amberGPIO.output( 10,True)time.sleep( 1)

#

GreenGPIO.output(9

,

False)GPIO.output(1 0,False)GPIO.output (11,

True)time.sleep(5)

# Amber

GPIO.output(11, False)GPIO.outp ut(10, True)time.sleep(2

)

# Amber off (red comes on at top of loop)GPIO.output(10,False)