ASSIGNMENT-3

TEAMID	PNT2022TMID17666
PROJECTNAME	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
NAME	VASUNTHARA.D
ROLLNO	611619205055/319UIT055

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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)
```