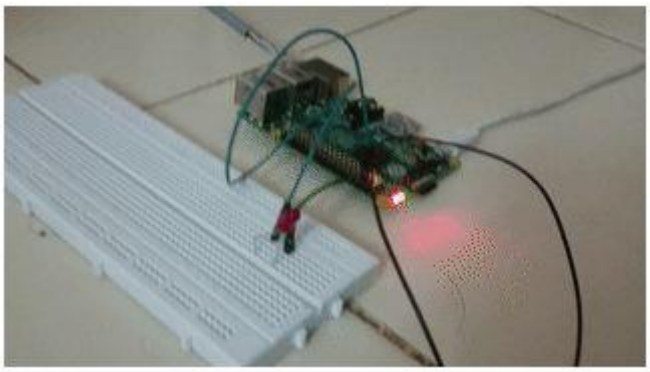
Date	05 October2022
Team ID	PNT2022TMID01040
ProjectName	Project-IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification

LED BLINKING USING RASPBERRY PI

PYTHON CODE:

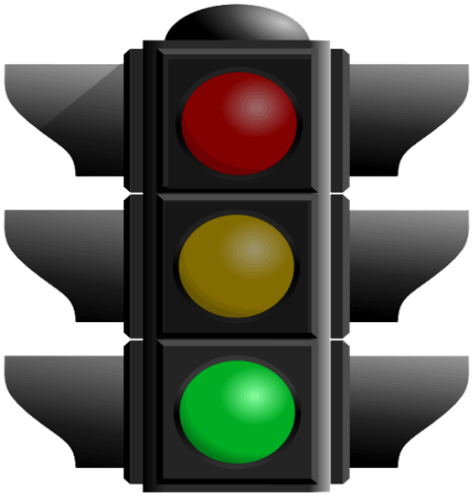
```
 import RPi.GPIO as GPIO # RPi.GPIO can be referred to as GPIO from now
 import time
 def setup():
 GPIO.setmode(GPIO.BOARD)       # GPIO Numbering of Pins
 GPIO.setup(ledPin, GPIO.OUT)   # Set ledPin as output
 GPIO.output(ledPin, GPIO.LOW)  # Set ledPinto LOW to turn Off the LED
 def loop():
      while True:
           print 'LED on'
GPIO.output(ledPin, GPIO.HIGH)   # LED On
 time.sleep(1.0)                 # wait 1 sec
           print 'LED off'
 GPIO.output(ledPin, GPIO.LOW)   # LED Off
 time.sleep(1.0)                # wait 1 sec
def endprogram():
      GPIO.output(ledPin, GPIO.LOW)   # LED Off
      GPIO.cleanup()                  # Release resources
      if __name__ == '__main__':         # Program starts from here
        setup()
   try:
    loop()
   except KeyboardInterrupt:  # When 'Ctrl+C' is pressed, the destroy() will be  executed.
    endprogram()
```



TRAFFIC LIGHT USING RASPBERRY PI

PYTHON CODE:

```
fromgpiozero import LED

from time import sleep

red=LED(22)

orange=LED(27)

green=LED(17)

    while True:
    red.on()
    sleep(1)
    orange.on(1)
    sleep(1)
    green.on()
    sleep(1)
    red.off()
    sleep(1)
    orange.off()
    sleep(1)
    green.off()

    .
```



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