

NPR COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ASSIGNMENT- III

TEAM ID : B3-3M5E

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PROBLEM STATEMENT: IoT Based Safety Gadget for Child Safety Monitoring and Notification

PROBLEM: Write a python code for blinking LED and Traffic lights for Raspberry pi.

Blinking LED:

```
import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library
import time
import sleep # Import the sleep function from the time module

GPIO.setwarnings(False) # Ignore warning for now
GPIO.setmode(GPIO.BOARD) # Use physical pin numbering
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) # Set pin 8 to be an output pin and
set initial value to low (off) while True: # Run forever

    GPIO.output(8, GPIO.HIGH) # Turn on
    Sleep(1) # sleep for one sec
    GPIO.output(8, GPIO.LOW) # Turn off
    sleep(1)
```

Traffic Light:

```
from gpiozero import LED
red = LED(22)
amber = LED(27)
green = LED(17)
red.blink(1, 1)
amber.blink(2, 2)
green.blink(3, 3)
```