ASSIGNMENT 3

Team ID: PNT2022TMID52298

Project Name: Gas Leakage monitoring & Alerting system for Industries

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QUESTION:

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

Only python code is enough, no need to execute in raspberry pi.

Note: you are allowed to use web search and complete the assignment.

Solution Code:

import RPi.GPIO as GPIO

LED BLINKING:

```
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(10, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output(10, GPIO.HIGH)
    sleep(1000)
    GPIO.output(10, GPIO.LOW)
    sleep(1000)
```

TRAFFIC LIGHTS:

import RPi.GPIO as GPIO from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(10, GPIO.OUT, initial=GPIO.LOW) # Set pin 10 as output for red GPIO.setup(11, GPIO.OUT, initial=GPIO.LOW) # Set pin 11 as output for yellow GPIO.setup(12, GPIO.OUT, initial=GPIO.LOW) # Set pin 12 as output for green while True:

GPIO.output(10, GPIO.HIGH)

GPIO.output(11, GPIO.LOW)

GPIO.output(12, GPIO.LOW)

sleep(60)

GPIO.output(10, GPIO.LOW)

GPIO.output(11, GPIO.HIGH)

GPIO.output(12, GPIO.LOW)

sleep(10)

GPIO.output(10, GPIO.LOW)

GPIO.output(11, GPIO.LOW)

GPIO.output(12, GPIO.HIGH)

Sleep(120);