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| Project Name | Hazardous Area Monitoring for Industrial Plant powered by IoT |

ASSIGNMENT-3

QUESTION:

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

CODE:

LED BLINKING CODE:

```
import RPi.GPIO as GPIO
from time import sleep

GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)
```

TRAFFIC LIGHT CODE:

```
from gpiozero import LED
from time import sleep

red = LED(22)
yellow = LED(27)
green = LED(17)

while True:
    red.on()
    sleep(15)
    red.off()
    sleep(1)
    yellow.on()
    sleep(10)
    yellow.off()
    sleep(1)
    green.on()
    sleep(10)
    green.off()
    sleep(1)
```