## **Assignment -3**

TEAM ID	PNT2022TMID38457
PROJECT TITLE	Industry-Specific Intelligent Fire Management
	System

## **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.

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Solution:
# Blinking LED
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 Simulation
import RPi.GPIO as GPIO
import time
import signal
import sys
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
while True:
  # Red
  GPIO.output(9, True)
  time.sleep(3)
  # Red and amber
  GPIO.output(10, True)
  time.sleep(1)
  # Green
```

GPIO.output(9, False)
GPIO.output(10, False)

GPIO.output(11, True) time.sleep(5)

# Amber GPIO.output(11, False) GPIO.output(10, True) time.sleep(2)

# Amber off (red comes on at top of loop) GPIO.output(10, False)