ASSIGNMENT-3

Date	10 NOVEMBER 2022
Team ID	PNT2022TMID12811
Project Name	Industry-specific intelligent fire management system
Maximum Marks	2 Marks

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

CODE:

1)PYTHON CODE FOR BLINKING LED

import RPi.GPIO as GPIO # Import Raspberry Pi GPIO library

from 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 1 second

1) PYTHON CODE FOR TRAFFIC LIGHT

GPIO.output(8, GPIO.LOW) # Turn

off Sleep (1) # Sleep for 1 second

```
import RPi.GPIO as GPIO import time
import signal import sys
# Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
# Turn off all lights when user ends demo
         allLightsOff(signal,
 def
                                 frame):
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, False)
GPIO.cleanup() sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
# Loop forever 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)