

ASSIGNMENT-3

1.) Write a python code for blinking LED with Raspberry pi.

```
import RPi.GPIO as GPIO
import time
LED_pin= 21
GPIO.setmode(GPIO.BCM)
GPIO.setup(LED_pin, GPIO.OUT)
while True:
    GPIO.output(LED_pin, GPIO.HIGH)
    time.sleep(1)
    GPIO.output(LED_pin, GPIO.LOW)
    print("Off")
    time.sleep(1)
```

2.) Write a python code for traffic lights with Raspberry pi.

```
import time
import RPi.GPIO as GPIO
from led import Led
GPIO.setmode(GPIO.BCM)
GPIO.setwarnings(False)
Red_led = Led(18, "RED", 5)
Yellow_led = Led(8, "YELLOW", 2)
Green_led = Led(20, "GREEN", 5)
Red_led.on()
Red_led.off()
Green_led.on()
Green_led.off()
Yellow_led.on()
Yellow_led.off()
Red_led.on()
Red_led.off()
GPIO.cleanup()
```