**ASSIGNMENT-3**

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**Python code for blinking LED**

**Program:**

**import Rpi.GPIO as GPIO**

**import time**

**LED\_PIN=17**

**GPIO.setmode.e(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)**

**time.sleep(1)**

**GPIO.cleanup()**

**Traffic light**

**From gpiozero import Button, TrafficLights, Buzzer**

**from time import sleep**

**buzzer = Buzzer(15)**

**button = Button(21)**

**lights = TrafficLights(25, 8, 7)**

**while True:**

**button.wait\_for\_press()**

**buzzer.on()**

**light.green.on()**

**sleep(1)**

**lights.amber.on()**

**sleep(1)**

**lights.red.on()**

**sleep(1)**

**lights.off()**

**buzzer.off()**