

# ASSIGNMENT-3

**PROBLEM STATEMENT**

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

SOURCE CODE:

# BLINKING LED CODE:

import RPi.GPIO as GPIO from time import sleep LED = 30

GPIO.setwarnings(False) GPIO.setmode(GPIO.BOARD)

GPIO.setup(LED, GPIO.OUT, initial=GPIO.LOW)

while True:

GPIO.output(LED, GPIO.HIGH)

sleep(1)

GPIO.output(LED, GPIO.LOW)

sleep(1)

# TRAFFIC LIGHTS:

from gpiozero import Button, TrafficLights, Buzzer from time import sleep

buzzer = Buzze

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()