**Assignment -3**

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Student Name K.Sri Ram

Student Roll Number 212219060137

**Question:**

Write a python code for blinking LED and Traffic Lights for RaspberryPi.

**Solution:**

**Python Code:**

1. **PYTHON CODE FOR BLINKING LED FOR RASPBERRY PI:** 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)

1. **PYTHON CODE FOR TRAFFIC LIGHTS FOR RASPBERRY PI:**

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()