**PYTHON CODE FOR TRAFFIC LIGHTS USING RASPBERRYPI**

**1) Write a python code blinking a LED for Raspberry Pi.**

**Code:**

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*

while True*: #Run forever*

GPIO.output(8, GPIO.HIGH) *#Turn on*

sleep(1) *#Sleep for 1 second*

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

sleep(1) *#Sleep for 1 second*

**2) Write a python code Traffic lights for Raspberry Pi.**

**Code:**

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()