ASSIGNMENT 3

**QUESTION:** WRITE A PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHT FOR RASPBERRY PI.

**CODE:**

import time

import RPi.GPIO as GPIO GPIO.setmode(GPIO.BOARD) GPIO.setup(11, GPIO.OUT)

while True: GPIO.output(11,True) time.sleep(1) GPIO.output(11,False) time.sleep(1)

from gpiozero import Button, TrafficLights, Buzzer buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7) while True:

button.wait\_for\_press() light.green.on() sleep(1) lights.amber.on() sleep(1)

lights.red.on() sleep(1) lights.off()

while True: lights.on() buzzer.off()

button.wait\_for\_press() lights.off()

buzzer.on() button.wait\_for\_release()

while True: lights.blink() buzzr.beep()

button.wait\_for\_press() lights.off()

buzzer.off() button.wait\_for\_release()