**ASSIGNMENT 3**

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| **ASSIGNMENT DATE** | **3 OCTOBER 2022** |
| **STUDENT NAME** | **ABIRAMI M** |
| **STUDENT ROLL NUMBER** | **620219106001** |
| **MAXIMUM MARKS** | **2 marks** |

**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()