**ASSIGNMENT 3**

| **ASSIGNMENT DATE** | **09 OCTOBER 2022** |
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| **STUDENT NAME** | **Hariharan S** |
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| **MAXIMUM MARKS** | **2 marks** |

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

**CODE:**

#Python program for blinking LED on Raspberry Pi

import time

import RPi.GPIO as GPIO

led\_pin = 5 #Pin definition

GPIO.setmode(GPIO.BCM)

GPIO.setup(led\_pin,GPIO.OUT)

GPIO.output(led\_pin,GPIO.HIGH)

time.sleep(1)

GPIO.output(led\_pin,GPIO.LOW)

time.sleep(1)

GPIO.output(led\_pin,GPIO.HIGH)

#Python program for traffic light on 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()