|  |  |
| --- | --- |
| **ASSIGNMENT DATE** | **3 OCTOBER 2022** |
| **STUDENT NAME** | **VISHVANTH R** |
| **STUDENT ROLL NUMBER** | **810419106070** |
| **MAXIMUM MARKS** | **2 MARK** |

**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(10, GPIO.OUT)**

**while True:**

**GPIO.output(10,True)**

**time.sleep(1)**

**GPIO.output(10,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()**