**ASSIGNMENT 3**

**BLINKING OF LED AND TRAFFIC LIGHTS FOR RASPBERRY PI**

|  |  |
| --- | --- |
| **DATE** | **3 OCTOBER 2022** |
| **TEAM ID** | **PNT2022TMID47477** |
| **PROJECT** | **IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTUR** |
| **MARKS** | **2 MARKS** |

**CODE:**

**gpiozero import Button**

**button = Button(21)**

**while True:**

**print(button.is\_pressed)**

**while True:**

**if button.is\_pressed:**

**print("Hello")**

**else:**

**print("Goodbye")**

**while True:**

**button.wait\_for\_press()**

**print("Pressed")**

**button.wait\_for\_release()**

**print("Released")**

**from gpiozero import Button**

**led = LED(25)**

**while True:**

**button.wait\_for\_press()**

**led.on()**

**button.wait\_for\_release()**

**led.off()**

**while True:**

**led.on()**

**button.wait\_for\_press()**

**led.off()**

**button.wait\_for\_release()**

**while True:**

**led.blink()**

**button.wait\_for\_press()**

**led.off()**

**button.wait\_for\_release()**

**from gpiozero import Button , LED**

**lights = TrafficLights(25, 8, 7)**

**while True:**

**button.wait\_for\_press()**

**lights.on()**

**button.wait\_for\_release()**

**lights.off()**

**while True:**

**lights.blink()**

**button.wait\_for\_press()**

**lights.off()**

**button.wait\_for\_release()**

**from gpiozero import Button, TrafficLights, Buzzer**

**buzzer = Buzzer(15)**

**while True:**

**lights.on()**

**buzzer.off()**

**button.wait\_for\_press()**

**lights.off()**

**buzzer.on()**

**button.wait\_for\_release()**

**while True:**

**lights.blink()**

**buzzer.beep()**

**button.wait\_for\_press()**

**lights.off()**

**buzzer.off()**

**button.wait\_for\_release()**

**from time import sleep**

**while True:**

**lights.green.on()**

**sleep(1)**

**lights.amber.on()**

**sleep(1)**

**lights.red.on()**

**sleep(1)**

**lights.off()**

**while True:**

**button.wait\_for\_press()**

**lights.green.on()**

**sleep(1)**

**lights.amber.on()**

**sleep(1)**

**lights.red.on()**

**sleep(1)**

**lights.off()**