ASSIGNMENT- 3

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| **PROJECT DOMAIN** | INTERNET OF THINGS |
| **PROJECT TITLE** | IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE |
| **TEAM ID** | PNT2022TMID44357 |
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| **DATE** | 06 OCTOBER 2022 |
| **MAXIMUM MARKS** | 2 MARKS |

**QUESTION:**

WRITE PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS USING RASPBERRY PI.

# 1.PYTHON CODE FOR BLINKING LED USING RASPBERRY PI CODE:

from gpiozero import LED # importing GPIO pins as LED from time import sleep # importing time function as sleep

red = LED(18) # red LED is connected to GPIO 18

while True: # infinite loop

red.on() # red LED is on for 1 second sleep(1)

red.off() # red led is off for 1 second sleep(1)

# 1.PYTHON CODE FOR TRAFFIC LIGHTS USING RASPBERRY PI CODE:

from gpiozero import LED # importing GPIO pins as LED from time import sleep # importing time function as sleep

red = LED(23) # red LED connected to GPIO 23

yellow = LED(07) # yellow LED connected to GPIO 07

green = LED(19) # green LED connected to GPIO 19

while True: # infine loop

red.on() # red LED is on for 5 seconds to make stop sleep(5)

red.off()

yellow.on() # yellow LED is on for 2 seconds to make ready sleep(2)

yellow .off

green.on() #green LED is on for 5 seconds to make go sleep(5)

green.off()