PSNA COLLEGE OF ENGINEERING AND TECHNOLOGY, DINDIGUL

Department of Electronics and Communigcation Engineering

**ASSIGNMENT 3**

NalayaThiran IOT Domain : IOT Enabled Smart waste management system for metropolitan cities

Topic : Python code for blinking LED and traffic lights for Raspberry pi

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Python Code:

Import RPi.GPIO as GPIO Import time

Try:

Def lightTraffic(led1, led2, led3, delay ): GPIO.output(led1, 1) Time.sleep(delay)

GPIO.output(led1, 0)

GPIO.output(led2, 1) Time.sleep(delay)

GPIO.output(led2, 0)

GPIO.output(led3, 1) Time.sleep(delay) GPIO.output(led3, 0) GPIO.setmode(GPIO.BCM) Button = 19

GPIO.setup(button, GPIO.IN, pull\_up\_down=GPIO.PUD\_UP) ledGreen = 16

ledYellow = 12

ledRed = 23 GPIO.setup(ledGreen, GPIO.OUT) GPIO.setup(ledYellow, GPIO.OUT) GPIO.setup(ledRed, GPIO.OUT) While True:

Input\_state = GPIO.input(button) If input\_state == False: Print(‘Button Pressed’)

lightTraffic(ledGreen, ledYellow, ledRed, 1) else:

GPIO.output(ledGreen, 0)

GPIO.output(ledYellow, 0)

GPIO.output(ledRed, 0) Except KeyboardInterrupt:

Print “You’ve exited the program” Finally:

GPIO.cleanup()