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()
```