ASSIGNMENT-3

Write a python code for blinking LED and Traffic lights for Raspberry Pi.

Blinking LED

GP10.cleanup()

import RPi.GPIO as GPIO import time #assign number for the GPIO using BCM GPIO.setmode (GPIO.BCM) #assign number for the GPIO using Board GPIO.setmode(GPIO.BOARD) cnt=0MAIL_CHECK_FREQ=1 #change LED status every 1 seconds RED_LED=4 GPIO.setup(RED_LED,GPIO.OUT) while True if cnt==0: GPIO.output(RED_LED,False) cnt=1 else: GPIO.output(RED_LED,True) cnt=0: time.sleep(MAIL_CHECK_FREQ)

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Traffic light
import RPi.GPIO as GPIO
import time
try:
  def lightTraffic(led7,led2,led3,delay)
      GP10.output(led7,7)
      time.sleep(delay)
      GP10.output(led7,0)
      GP10.output(led2,1)
      time.sleep(delay)
      GPIO.output(led2,0)
      GP10.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=76
ledYellow=12
ledRed=23
GPIO.setup(ledGreen,GPIO.OUT)
GPIO.setup(ledYellow,GPIO.OUT)
GPIO.setup(ledRed,GPIO.OUT)
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input_state=GPIO.input(button)

While True:



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if input_state==false

Print("Button Pressed")

LightTrafic(ledGreen,ledYellow,ledRed,1)

else:

GP10.output(ledGreen,0)

GP10.output(ledYellow,0)

GP10.output(ledRed,0)

except KeyboardInterrupt

Print

"You have exited the program"

finally:

GP10.cleanup()
```