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**Assignment:3**

**1)LED BLINKING**

Import RPi.GPIO as GPIO

From time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

While True: #infinite loop

GPIO.output(8, GPIO.HIGH) # Turn on

Print(“The LED is ON”)

Sleep(5) # Sleep for 5 second

GPIO.output(8, GPIO.LOW) # Turn off

Print(“The LED is OFF”)

Sleep(5) # Sleep for 5 second

**2) Traffic light**

|  |  |
| --- | --- |
|  | from gpiozero import LED  from time import sleep |
|  |  |
|  |  |
|  | red= LED(17) #pin numbers connected to Led's |
|  | amber=(22) |
|  | green=(27) |
|  |  |
|  |  |
|  | while True: |
|  | red.on() #RED light |
|  | print("Red light is ON") |
|  | for i in range(60,0,-1): |
|  | print("Remaining time: ",i) |
|  | sleep(1) |
|  | red.off() |
|  |  |
|  | amber.on() # AMBER light |
|  | print("Yellow light is ON") |
|  | for i in range(5,0,-1): |
|  | print("Remaining time: ",i) |
|  | sleep(1) |
|  | amber.off() |
|  |  |
|  | green.on #GREEN light |
|  | print("Green light is ON") |
|  | for i in range(40,0,-1): |
|  | print("Remaining time: ",i) |
|  | sleep(1) |
|  | green.off() |