Team ID: PNT2022TMID31006

Assignment-3

Program for Traffic light and blinking LED

Code:

#PROGRAM FOR TRAFFIC LIGHT

```
import RPi.GPIO as GPIO
import time
#assign numbering for the GPIO using BCM
GPIO.setmode(GPIO.BCM)
GPIO.setup(4,GPIO.OUT)#green led
GPIO.setup(3,GPIO.OUT)#yellow led
GPIO.setup(2,GPIO.OUT)#red led
while True:
  #code for green led
  GPIO.output(4,True)
  time.sleep(1)
  GPIO.OUTPUT(4,False)
  #code for yellow led
  GPIO.output(3,True)
  time.sleep(1)
  GPIO.OUTPUT(3,False)
  #code for red led
```

```
GPIO.output(2,True)
time.sleep(1)
GPIO.OUTPUT(2,False)
GPIO.cleanup()
```

#PROGRAM FOR BLINKING AN LED

```
import RPi.GPIO as GPIO
import time
#assign numbering for the GPIO using BCM
GPIO.setmode(GPIO.BCM)
#assingn number for the GPIO using Board
#GPIO.setmode(GPIO.BOARD)
cnt = 0
GPIO.setup(4, GPIO.OUT)
while True:
  if cnt == 0:
    GPIO.output(RED_LED, False)
    cnt = 1
  else:
     GPIO.output(RED_LED, True)
     cnt = 0
     time.sleep(1)
GPIO.cleanup()
```