ASSIGNMENT – 03

Python Programming with Raspberry pi

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1.CODE FOR BLINKING LED:

import RPi.GPIO as GPIO

import time

#assign numbering for the GPIO using BCM

GPIO.setmode(GPIO.BCM)

#assign number for the GPIO using Board

#GPIO.setmode(GPIO.BOARD)

cnt = 0

MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds

 $RED_LED = 4$

GPIO.setup(RED_LED, GPIO.OUT)

while True:

ifcnt == 0:

GPIO.output(RED_LED, False)

cnt = 1

```
else:
GPIO.output(RED_LED, True)
cnt = 0
time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

2.CODE FOR TRAFFIC LIGHTS:

```
from gpio zero import Button, Traffic Lights, Buzzer
from time import sleep
buzzer = Buzzer(15)
button = Button(21)
lights = Traffic Lights(25, 8, 7)
while True:
       button.wait_for_press()
       buzzer.on()
       light.green.on()
       sleep(1)
       lights.amber.on()
       sleep(1)
       lights.red.on()
       sleep(1)
       lights.off()
       buzzer.off()
```