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,
     while True:
7)
       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()
```