## **ASSIGNMENT III**

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## 1. Python code for blinking LED for Raspberry pi.

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)
cnt = 0
MAIL\_CHECK\_FREQ = 1
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)
GPIO.cleanup()
```

## 2. Python code for traffic lights for Raspberry pi.

```
import RPi.GPIO as GPIO
import time
try:
 def lightTraffic(led1, led2, led3, delay):
 GPIO.output(led1, 1)
 time.sleep(delay)
 GPIO.output(led1, 0)
 GPIO.output(led2, 1)
 time.sleep(delay)
 GPIO.output(led2, 0)
 GPIO.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 = 16
 ledYellow = 12
 ledRed = 23
 GPIO.setup(ledGreen, GPIO.OUT)
 GPIO.setup(ledYellow, GPIO.OUT)
 GPIO.setup(ledRed, GPIO.OUT)
while True:
 input_state = GPIO.input(button)
 if input_state == False:
```

