

Assignment -3
PYTHON CODE

Assignment Date	06 October 2022
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Maximum Marks	2 Marks

QUESTION-2:

Write a python code for blinking LED for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

Solution:

BLINKING LED

```
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
MAIL_CHECK_FREQ = 1 # change LED status every 1 seconds
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()
TRAFFIC LIGHT
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(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()
```