

**Assignment -3**  
Python Programming For Raspberry pi

Assignment Date	5 October 2022
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Maximum Marks	2 Marks

**Question-1:**

**Write a python code for blinking LED using Raspberry pi.**

**Solution:**

```
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BCM)

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()
```

**Question-2:**

Write a python code for traffic light using raspberry pi.

**Solution:**

```
from gpiozero import Button, Trafficlight, Buzzer
from time import sleep
```

```
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()
```