

## ASSIGNMENT 3

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MAXIMUM MARKS	2 MARKS

### QUESTION:

Python code for LED blinking and traffic light controller using raspberry pi.

### LED BLINKING:

```
import RPi.GPIO as GP from time
import sleep
GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)
while True:
    print("LED is ON")
    sleep(2)
    print("LED is OFF")
    sleep(2)
```

### TRAFFIC LIGHT CONTROLLER:

```
import RPi.GPIO as GPIO
import time
```

```
import signal
import sys
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)
def allLightsOff(signal, frame):
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, False)
    GPIO.cleanup()
    sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
while True:
    GPIO.output(9, True)
    time.sleep(3)
    GPIO.output(10, True)
    time.sleep(1)
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)
    GPIO.output(11, False)
    GPIO.output(10, True)
```

```
time.sleep(2)
```

```
GPIO.output(10, False)
```