

Assignment – 03

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Maximum Marks	2 Marks

Write python code for blinking LED

```
1 import RPi.GPIO as GPIO #Import Raspberry Pi GPIO library
2
3 from time import sleep #Import the sleep function from the time module
4 GPIO.setwarnings(False) #Ignore warning for now
5 GPIO.setmode(GPIO.BOARD) #Use physical pin numbering
6 GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW) #Set pin 8 to be an output pin and set initial value to low
7
8 while True: #Run forever
9     GPIO.output(8, GPIO.HIGH) #Turn on
10    sleep(1) #Sleep for 1 second
11    GPIO.output(8, GPIO.LOW) #Turn off
12    sleep(1) #Sleep for 1 second
13
```

Write python code for Traffic lights for Raspberry pi.

```
1 from gpiozero import Button, TrafficLights, Buzzer
2
3 from time import sleep
4 buzzer = Buzzer(15)
5 button = Button(21)
6 lights = TrafficLights(25, 8, 7)
7
8 while True:
9     button.wait_for_press()
10    buzzer.on()
11    light.green.on()
12    sleep(1)
13    lights.amber.on ()
14    sleep(1)
15    lights.red.on()
16    sleep(1)
17    lights.off()
18    buzzer.off()
19
```