Assignment – 03

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Maximum Marks	2 Marks

Write python code for blinking LED

```python
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.

```python
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
```