## Assignment -3

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Assignment Date	02 October 2022
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Maximum Marks	2 Marks

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Write a python code for blinking LED and Traffic Lights for Raspberry Pi.
(i) Python Code for Blinking LED:
#import RPi.GPIO as GPIO #Import Raspberry Pi GPIO library
#from gpiozero import LED
from time import sleep #Import the sleep function from the time modulo
\#led = LED(17)
while True:
  #led.on()
  print("LED turned ON")
  sleep(1)
  #led.off()
  print("LED turned OFF")
  sleep(1)
(ii) Python Code for Traffic Lights:
import RPi.GPIO as GPIO
import time
import signal
import sys
#setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
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GPIO.setup(11, GPIO.OUT)

def allLightOff(signal, frame):

GPIO.output(9,False)

GPIO.output(10,False)

#Turn off all lights

```
GPIO.output(11,False)
  GPIO.cleanup()
  sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)
#Forever Loop
while True:
  #Red
  GPIO.output(9, True)
  time.sleep(3)
  GPIO.output(10, True)
  time.sleep(1)
  #Green
  GPIO.output(9,False)
  GPIO.output(10,False)
  GPIO.output(11,True)
  time.sleep(5)
  #Amber
  GPIO.output(11,False)
  GPIO.output(10,True)
  time.sleep(2)
  #Amber off
  GPIO.output(10,False)
```