## ASSIGNMENT – 3

## **GAS LEAKAGE MONITORING AND ALERTING SYSTEM IN INDUSTRIES**

DOMAIN	IOT
BATCH	B4-4M6E
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MARKS	2 marks

## **Question:**

Write python code for Blinking LED and Traffic lights for Raspberry pi.

## **Solution:**

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

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW)

while True:

GPIO.output(8,GPIO.HIGH)

sleep(1)

GPIO.output(8,GPIO.LOW)

sleep(1)

```
import RPi.GPIO as GPIO
import time
import signal
Import sys
#Setup
GPIO.setmode(GPIO.BGM)
GPIO.setup(9,GPIO.OUT)
GPIO.setup(10,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)
#Turn off all lights when user ends demo
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)
#Loop forever
while True:
  #Red
  GPIO.output(9,True)
  time.sleep(3)
  #Red and amber
  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 (red comes on at top of loop)
```

GPIO.output(10,False)