ASSIGNMENT – 3

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Team ID	PNT2022TMID31438
Maximum Mark	2 Marks

Questions-1

How to blink led using raspberry pi?

Solution:

```
import RPi.GPIO as GPIO
import time

ledPin = 22

def setup():
    GPIO.setmode(GPIO.BOARD)
    GPIO.setup(ledPin, GPIO.OUT)
    GPIO.output(ledPin, GPIO.LOW)

def loop():
while True:
print 'LED on'
```

```
            GPIO.output(ledPin, GPIO.HIGH)
        time.sleep(1.0)
            print 'LED off'
            GPIO.output(ledPin, GPIO.LOW)
                time.sleep(1.0)
def endprogram():

        GPIO.output(ledPin, GPIO.LOW)
        GPIO.cleanup()


    if __name__ == '__main__':
            setup()
    try:
                loop()        except
KeyboardInterrupt:

endprogram()
```

Question-2

How to blink traffic light using raspberry pi?

Solution:

```
from gpiozero import Button, TrafficLights, Buzzer

from time import sleep    buzzer = Buzzer(15)

button = Button(21)    lights = TrafficLights(25, 8,

7)    while True:

    button.wait_for_press()

buzzer.on()
```

```
light.green.on()

sleep(1)

lights.amber.on()

sleep(1)

lights.red.on()

sleep(1)          lights.off()

buzzer.off()
```