ASSIGNMENT – 3

Student Name	BLESSWIN.K.SAMUEL
Student Register Number	961819104026
Team ID	PNT2022TMID34458
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()
```