ASSIGNMENT – 3

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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.red.on()
```

buzzer.off()