ASSIGNMENT -3

Question:- Write a python code for Blinking LED and Traffic lights for Raspberry Pi .

LED Blinking:-

```
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)
```

```python
            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()
```

TRAFFIC LIGHT python code:-

```python
from giozero  import LED
from time import sleep
```

```
red=LED(17)
yellow=LED(22)
green=LED(27)
While True:
    red.on()
    sleep(15)
    red.off()
    sleep(1)
    yellow.on()
    sleep(10)
    yellow.off()
    sleep(1)
    green.on()
    sleep(10)
    green.off()
    sleep(1)
```