

RAJALAKSHMI INSTITUTE OF TECHNOLOGY
[DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING]

ASSIGNMENT - 3

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TOPIC: Python Code for Blinking LED and Traffic lights for Raspberry pi

CODE:

```
import RPi.GPIO as GPIO
import time

ledPin = 22  # pin22

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()
```