

ANNAI VEILANKANNI'S COLLEGE OF ENGINEERING

Department of computer science and engineering

IOT ASSIGNMENT

TOPIC : Write a python code for blinking LED and Traffic light for Raspberry pi.

BATCH NO : B1-1M3E

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CODING

```
#!/usr/bin/env python
```

```
import RPi.GPIO as GPIO # RPi.GPIO can be referred as GPIO from now
```

```
import time
```

```
ledPin = 22 # pin22
```

```
def setup():
```

```
    GPIO.setmode(GPIO.BOARD) # GPIO Numbering of Pins
```

```
    GPIO.setup(ledPin, GPIO.OUT) # Set ledPin as output
```

```
    GPIO.output(ledPin, GPIO.LOW) # Set ledPin to LOW to turn Off the LED
```

```
def loop():
```

```
    while True:
```

```
        print 'LED on'
```

```
        GPIO.output(ledPin, GPIO.HIGH) # LED On
```

```
        time.sleep(1.0) # wait 1 sec
```

```
        print 'LED off'
```

```
        GPIO.output(ledPin, GPIO.LOW) # LED Off
```

```
        time.sleep(1.0) # wait 1 sec
```

```
def endprogram():
```

```
    GPIO.output(ledPin, GPIO.LOW) # LED Off
```

```
    GPIO.cleanup() # Release resources
```