

Assignment-3

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Question:

Write Python code for blinking LED and Traffic lights for Raspberry pi.

Program:

(i)Blinking LED

```
Import RPi.GPIO as GPIO
Import time
GPIO.setmode(GPIO.BOARD)
GPIO.setup(11, GPIO.OUT) While
True:
    GPIO.output(11,True)
    Time.sleep(1)
    GPIO.output(11,False)
    Time.sleep()
```

(ii)Traffic light

```
Import RPi.GPIO as GPIO
Import time
GPIO.setmode(GPIO.BOARD)
Red=7
Yellow=11
Green=13
GPIO.setup(red, GPIO.OUT)
GPIO.setup(yellow, GPIO.OUT)
GPIO.setup(green, GPIO.OUT)
While True:
    GPIO.output(red,True)
```

```
Time.sleep(8)
```

```
GPIO.output(red,False)
```

```
GPIO.output(yellow,True)
```

```
Time.sleep(3)
```

```
GPIO.output(yellow,False)
```

```
GPIO.output(green,True)
```

```
Time.sleep(5)
```

```
GPIO.output(green,False)
```

```
GPIO.cleanup()
```