

ASSIGNMENT 3

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AIM:

Build a Raspberry Pi code for blinking LED and Traffic light.

SOFTWARE REQUIRED:

Raspberry Pi

Raspberry Pi CODE:

```
import RPi.GPIO as GPIO
```

```
import time
```

```
GPIO.setmode(GPIO.BCM)
```

```
# Green LED
```

```
GPIO.setup(20, GPIO.OUT)
```

```
# Yellow LED
```

```
GPIO.setup(26, GPIO.OUT)
```

```
# Red LED
```

```
GPIO.setup(21, GPIO.OUT)
```

```
try: while
```

```
True:
```

```
GPIO.output(21, GPIO.HIGH)
print("Red")    time.sleep(4)
GPIO.output(21, GPIO.LOW)
GPIO.output(26, GPIO.HIGH)
print("Yellow")    time.sleep(4)
GPIO.output(26, GPIO.LOW)
GPIO.output(20, GPIO.HIGH)
print("Green")    time.sleep(4)
print("-----")
GPIO.output(20, GPIO.LOW)
finally:
GPIO.cleanup()
```