

IBM ASSIGNMENT- 3

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Build a python code . Write python code for blinking LED and Traffic lights for Raspberry pi.

Program:

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

```
import time
```

```
import signal
```

```
import sys
```

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

```
GPIO.setup( 9 , GPIO.OUT )
```

```
GPIO.setup( 10 , GPIO.OUT )
```

```
GPIO.setup( 11 , GPIO.OUT )
```

```
def allLightsOff( signal,
```

```
    frame ): GPIO.output( 9 ,
```

```
    False ) GPIO.output( 10 ,
```

```
    False ) GPIO.output( 11 ,
```

```
    False )
```

```
GPIO.cleanup( )
```

```
sys.exit( 0 )
```

```
signal.signal( signal.SIGINT, allLightsOff )
```

```
while True:
```

```
    GPIO.output( 9, True )
```

```
    time.sleep( 3 )
```

```
    GPIO.output( 10, True )
```

```
    time.sleep( 1 )
```

```
    GPIO.output( 9, False )
```

```
    GPIO.output( 10, False )
```

```
    GPIO.output( 11, True )
```

```
    time.sleep( 5 )
```

```
    GPIO.output( 11, False )
```

```
    GPIO.output( 10, True )
```

```
    time.sleep( 2 )
```

```
    GPIO.output( 10, False )
```