

Assignment -3
Mahendra
engineering college
for women

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CLASS : 4 YEAR ECE
SUBJECT: IBM
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Question-1:

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

Solution:

Import RPi.GPIO as GPIO import time

import signal import sys

**# Setup GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT) GPIO.setup(10,
GPIO.OUT) GPIO.setup(11, GPIO.OUT)**

**# Turn off all lights when user ends demo
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) #
Loop forever**

while True:

Red GPIO.output(9, True) time.sleep(3)

**# Red and amber GPIO.output(10, True)
time.sleep(1)**

Green


```
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, True)
time.sleep(5)
```

```
# Amber
GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
```

```
# Amber off (red comes on at top of loop)
GPIO.output(10, False)
```