

Assignment -3

Raspberry pi program

Assignment Date	07 October 2022
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Maximum Marks	2 Marks

ASSIGNMENT

```
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)
```

```
# 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)
```