

Assignment -3

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-3:

Write python code for blinking LED and Traffic lights for Raspberry pi. Only python code is enough, no need to execute in raspberry pi.

Solution:

CODE:

RASPBERRY PI LED BLINK:

```
import RPi.GPIO as GPIO import time

GPIO.setmode(GPIO.BCM)

GPIO.setwarnings(False)

GPIO.setup(18,GPIO.OUT) print

("LED on")
```

```
GPIO.output(18,GPIO.HIGH)
```

```
time.sleep(1) print ("LED  
off")
```

```
GPIO.output(18,GPIO.LOW)
```

CODE:

RASPBERRY PI FOR TRAFFIC LIGHT:

```
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)
```