

Assignment -3
Python Programming

Assignment Date	19 September 2022
Student Name	Mr.G.MANIKANTA
Student Roll Number	111519106042
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.

Note: you are allowed to use web search and complete the assignment.

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)
```