

Assignment Date	7 OCTOBER 2022
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Maximum Marks	

Question-1:Assignment -3

Python Code for Blinking led & Traffic lights

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

Solution

#BLINKING LED—VINOTH.E

```
import time
import RPi.GPIO as GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setup(18,
GPIO.OUT)
while True:
    GPIO.output(18,True) # Turn
    on Led time.sleep(1)
    GPIO.output(18,False) # Turn
    off Led time.sleep(1)
```

#TRAFFIC LIGHTS

```
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:
    # 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)
```