Assignment -3

Python Programming

Assignment Date	8 October 2022
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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.BC
M) 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)
```