Assignment -3
Python Programming

Assignment Date	08 October 2022
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Maximum Marks	2 Marks

Question:

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

Solution:

For LED:

```
import RPi.GPIO as
GPIO from time import sleep
GPIO.setwarnings (False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW)

while True:
GPIO.output(8,GPIO.HIGH)
 sleep(1)
GPIO.output(8,GPIO.LOW)
sleep(1)
```

For Traffic Lights:

```
import Rpi.GPIO as GPIO
import time
import signal
import sys
GPIO.setmode(GPIO.BCM)
GPIO.setup(9,GPIO.OUT)
```

```python
GPIO.setup(10,GPIO.OUT)
GPIO.setup(11,GPIO.OUT)
def allLightsOff(signal,framer):
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)
```