ASSIGNMENT-3 Python Programming

Assignment Date	02 October 2022
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Maximum Marks	2

Question:

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

Blinking LED:

Wait for one second

Traffic Lights:

Setup

GPIO.setmode(GPIO.BCM)

time.sleep(1)

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)
```