## Assignment -3

**Python Programming** 

REGISTER NUMBER	19L106
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## Question-1:

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

## **SOLUTIONS:**

```
import RPi.GPIO as GPIO
import time
  import signal
  import sys
  # Setup
  GPIO.setmode(GPIO.BCM)
  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(10, False)
GPIO.output(11, True)
time.sleep(5)

# Amber
GPIO.output(11, False)
GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)

# Amber off (red comes on at top of loop)
GPIO.output(10, False)
```