## 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.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(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)
```