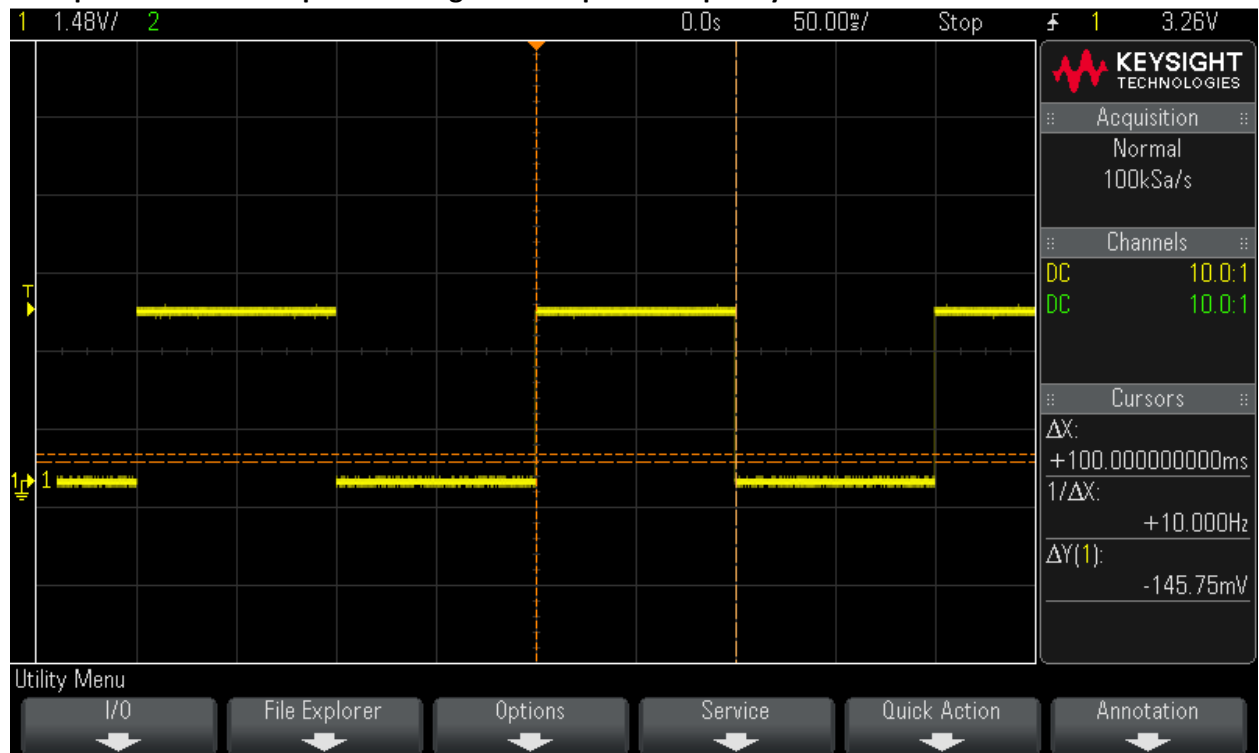


1) A link to your project's git repo.

<https://github.com/deep6000/Advanced-Embedded-Software-Design.git>

2) A scope shot of the LED pin switching at the required frequency.



3) Screenshots of UART terminal on HOST machine showing log output of both tasks

```
[1168030ms] [LED] [INFO] Name: Deepesh Count: 50
[1168130ms] [LED] [INFO] Name: Deepesh Count: 51
[1168230ms] [LED] [INFO] Name: Deepesh Count: 52
[1168330ms] [LED] [INFO] Name: Deepesh Count: 53
[1168430ms] [LED] [INFO] Name: Deepesh Count: 54
[1168530ms] [LED] [INFO] Name: Deepesh Count: 55
[1168630ms] [LED] [INFO] Name: Deepesh Count: 56
[1168730ms] [LED] [INFO] Name: Deepesh Count: 57
[1168830ms] [LED] [INFO] Name: Deepesh Count: 58
[1168930ms] [LED] [INFO] Name: Deepesh Count: 59
[1169030ms] [TEMPERATURE] [INFO] Temperature : 21.625 DegC
[1169030ms] [LED] [INFO] Name: Deepesh Count: 60
[1169130ms] [LED] [INFO] Name: Deepesh Count: 61
[1169230ms] [LED] [INFO] Name: Deepesh Count: 62
[1169330ms] [LED] [INFO] Name: Deepesh Count: 63
[1169430ms] [LED] [INFO] Name: Deepesh Count: 64
[1169530ms] [LED] [INFO] Name: Deepesh Count: 65
[1169630ms] [LED] [INFO] Name: Deepesh Count: 66
[1169730ms] [LED] [INFO] Name: Deepesh Count: 67
[1169830ms] [LED] [INFO] Name: Deepesh Count: 68
[1169930ms] [LED] [INFO] Name: Deepesh Count: 69
[1170030ms] [TEMPERATURE] [INFO] Temperature : 21.625 DegC
[1170030ms] [LED] [INFO] Name: Deepesh Count: 70
[1170130ms] [LED] [INFO] Name: Deepesh Count: 71
```

4) Screenshot of UART terminal showing alert. (Threshold Temperature : 22 DegC)

A) Threshold crossing 22 DegC

```

[1391008ms] [LED] [INFO] Name: Deepesh Count: 591
[1391108ms] [LED] [INFO] Name: Deepesh Count: 592
[1391208ms] [LED] [INFO] Name: Deepesh Count: 593
[1391308ms] [LED] [INFO] Name: Deepesh Count: 594
[1391408ms] [LED] [INFO] Name: Deepesh Count: 595
[1391508ms] [LED] [INFO] Name: Deepesh Count: 596
[1391608ms] [LED] [INFO] Name: Deepesh Count: 597
[1391708ms] [LED] [INFO] Name: Deepesh Count: 598
[1391808ms] [LED] [INFO] Name: Deepesh Count: 599
[1391908ms] [TEMPERATURE] [INFO] Temperature : 24.625 DegC
[1391908ms] [LED] [INFO] Name: Deepesh Count: 600
[1391917ms] [ALERT] [ALERT] TEMPERATURE THRESHOLD CROSSED
[1392008ms] [LED] [INFO] Name: Deepesh Count: 601
[1392108ms] [LED] [INFO] Name: Deepesh Count: 602
[1392208ms] [LED] [INFO] Name: Deepesh Count: 603
[1392308ms] [LED] [INFO] Name: Deepesh Count: 604
[1392408ms] [LED] [INFO] Name: Deepesh Count: 605
[1392508ms] [LED] [INFO] Name: Deepesh Count: 606
[1392608ms] [LED] [INFO] Name: Deepesh Count: 607
[1392708ms] [LED] [INFO] Name: Deepesh Count: 608
[1392808ms] [LED] [INFO] Name: Deepesh Count: 609
[1392908ms] [TEMPERATURE] [INFO] Temperature : 24.625 DegC
[1392908ms] [LED] [INFO] Name: Deepesh Count: 610
[1392917ms] [ALERT] [ALERT] TEMPERATURE THRESHOLD CROSSED
[1393008ms] [LED] [INFO] Name: Deepesh Count: 611
[1393108ms] [LED] [INFO] Name: Deepesh Count: 612

```

B) Alert task stops once Temperature drops below threshold

```

[1529802ms] [LED] [INFO] Name: Deepesh Count: 1328
[1529902ms] [LED] [INFO] Name: Deepesh Count: 1329
[1530002ms] [TEMPERATURE] [INFO] Temperature : 22.625 DegC
[1530003ms] [LED] [INFO] Name: Deepesh Count: 1330
[1530012ms] [ALERT] [ALERT] TEMPERATURE THRESHOLD CROSSED
[1530102ms] [LED] [INFO] Name: Deepesh Count: 1331
[1530202ms] [LED] [INFO] Name: Deepesh Count: 1332
[1530302ms] [LED] [INFO] Name: Deepesh Count: 1333
[1530402ms] [LED] [INFO] Name: Deepesh Count: 1334
[1530502ms] [LED] [INFO] Name: Deepesh Count: 1335
[1530602ms] [LED] [INFO] Name: Deepesh Count: 1336
[1530702ms] [LED] [INFO] Name: Deepesh Count: 1337
[1530802ms] [LED] [INFO] Name: Deepesh Count: 1338
[1530902ms] [LED] [INFO] Name: Deepesh Count: 1339
[1531002ms] [TEMPERATURE] [INFO] Temperature : 21.625 DegC
[1531003ms] [LED] [INFO] Name: Deepesh Count: 1340
[1531102ms] [LED] [INFO] Name: Deepesh Count: 1341
[1531202ms] [LED] [INFO] Name: Deepesh Count: 1342
[1531302ms] [LED] [INFO] Name: Deepesh Count: 1343
[1531402ms] [LED] [INFO] Name: Deepesh Count: 1344
[1531502ms] [LED] [INFO] Name: Deepesh Count: 1345
[1531602ms] [LED] [INFO] Name: Deepesh Count: 1346
[1531702ms] [LED] [INFO] Name: Deepesh Count: 1347
[1531802ms] [LED] [INFO] Name: Deepesh Count: 1348
[1531902ms] [LED] [INFO] Name: Deepesh Count: 1349

```