

On-Board Computer(OBC)

Hands-on Satellite System

HomeWork 1

Mei Hua, Hsu

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Homework 1

- 1-1

做出控制四顆LED的程式，模式為四顆LED來回輪流閃爍，每顆LED閃爍週期0.4秒，Duty cycle 50%。

- 1-2

改寫1-1的程式，將LED1的閃爍模式變更為週期1秒。

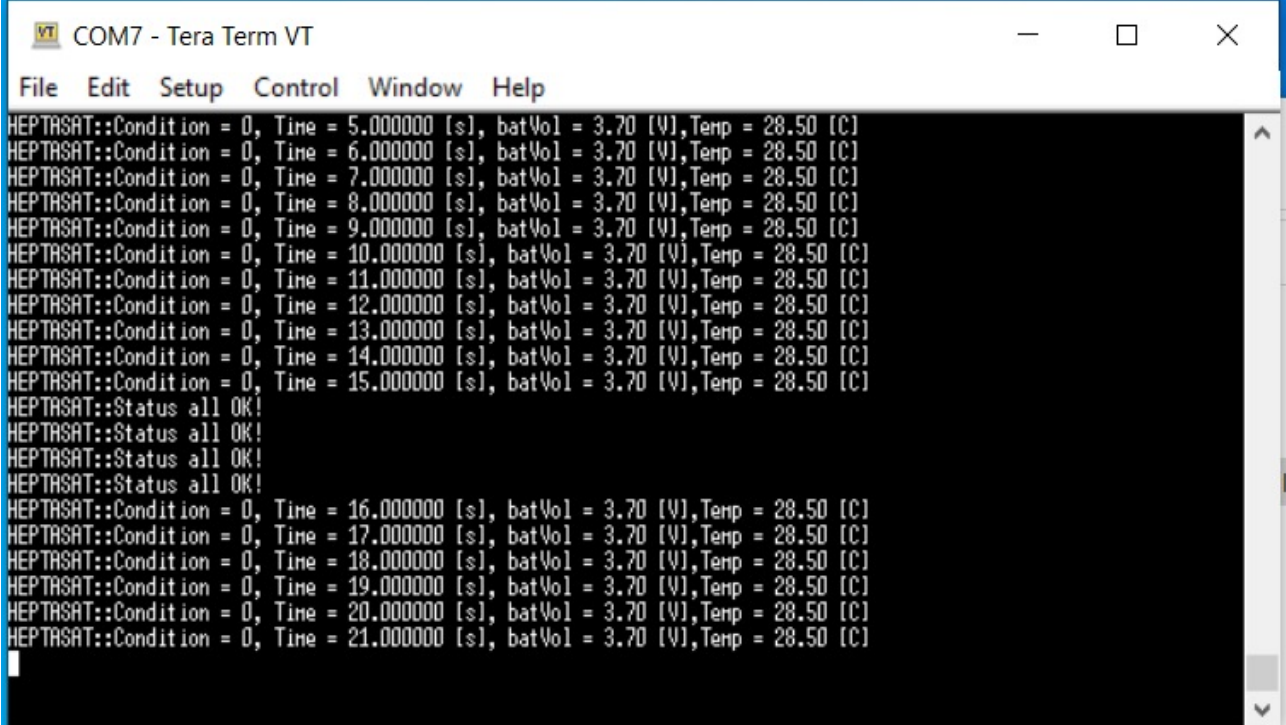
上課無法完成者，請將實作拍攝影片

1. 影片上傳到YouTube或google drive
2. 程式命名:102_學號_main.cpp

Homework 1

- 1-3

透過PC傳輸字母 'g' 給Mbed，
Mbed回傳“ HEPTASAT::Status all
OK!”，且LED閃爍(模式隨意)，
須在一秒內執行4次，題目程
式網址<https://reurl.cc/vgdm3a>。



```
COM7 - Tera Term VT
File Edit Setup Control Window Help
HEPTASAT::Condition = 0, Time = 5.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 6.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 7.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 8.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 9.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 10.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 11.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 12.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 13.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 14.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 15.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Status all OK!
HEPTASAT::Status all OK!
HEPTASAT::Status all OK!
HEPTASAT::Status all OK!
HEPTASAT::Condition = 0, Time = 16.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 17.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 18.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 19.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 20.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
HEPTASAT::Condition = 0, Time = 21.000000 [s], batVol = 3.70 [V], Temp = 28.50 [C]
```

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1. 影片上傳到YouTube或google drive
2. 程式命名:103_學號_main.cpp
3. Tera Term視窗截圖

作業繳交

- 個人作業
- 將資料整合成壓縮檔，包含：
 1. 影片連結
 2. 程式
 3. Tera Term截圖壓縮檔命名為OBC_學號_姓名

寄信主旨：同壓縮檔名，Email: mhhsu@g.ncu.edu.tw

期限：3/23 00:00

補充資料

- bitwise operators

<https://openhome.cc/Gossip/CGossip/LogicalBitwise.html>

- `\r\n` 和 `\n` 的差異

<http://reurl.cc/3NbO8V>