

Libraries
 Avr/sleep.h
 Avr/power.h
 Wire.h
 SD.h
 R8025.h or DS3231 depending on stalker version
 Battery.h

Define
 sleep_bod_disable()

Create objects / define variables:
 R8025 or DS3231
 interruptTime

 sampleRate (300)
 alarmFlag
 pulseFlag

 pulseCount
 Pulse_Total
 Bat_read
 Bat_voltage
 Charge_status

dataLEDPin : 4
 logLedPin: 5
 fileLedPin: 8
 chipSelect: 1

Setup
 Initialise INT0 and INT1 interrupts
 Begin serial / wire / ,RTC
 Battery_init
 Set_sleep_mode
 Set LED pins to output
 Set ChipSelect pin to output
 Check SD card and initialise
 Write headers to card
 Enable interrupt on Dig 3
 Call funtion setAlarm

