USB mouse

* Edit harmony project to make usb mouse that is controlled by accelerometer
* Go to microchip -> harmony -> aps -> usb ->
  + Device
    - Using hid mouse usb device
    - No driver required ☺
    - Copy hid\_mouse project example (DO NOT MOVE LOACTION)
    - Inside source 🡪 system config we will edit sk2 version
    - Under project properties there are multiple configurations, in XIDE edit sk2 to be linked with our PIC
    - In source 🡪 app.c try to build it (it wont work… lots of errors cause we changed the PIC
    - Comment out any PLIB functions (we will use TRIS and LAT instead later)
    - Change PORTD to PORT B or A (since our pic doesn’t have port D
    - Delete #pragma from code and replace with the ones we have been using for our pic (MAKE HEADER THAT HAS THIS! YOU SHOULD HAVE HAD THIS IN EVERY FILE….)
    - In state machine comment our LED functions (we will replace with LAT commands)
    - In APP\_ switchpress there is intense debounce code…. Just ignore it I guess
    - App\_tasks
      * Mouse\_emulate: call complicated debounce switch function
      * Is it pressed? If so it sends x and y coordinate delta
      * Store in dir\_table ( makes a circle) 🡪 we will change this later so it moves based on accelerometer
      * Read accelerometer data, turn into signed char ( may need to be as small as 3 max for stability)
  + Host