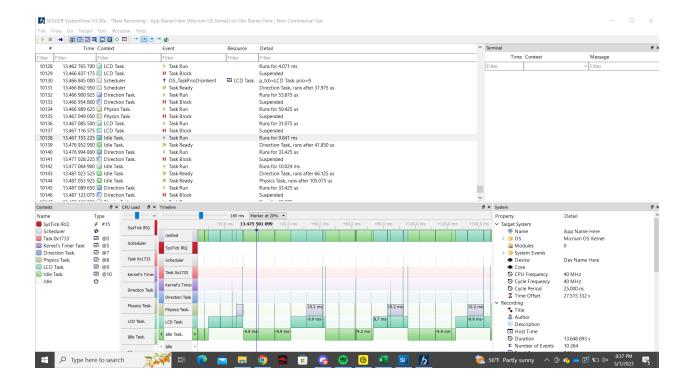
FINAL SUMMARY

I was able to get my project fully functioning based on how I anticipated it to work. The slider applies a force to the sled, moving it around. The left button activates a shield which destroys any nearby satchels. The right button charges a shot that can be fired at the foundation to damage it. The satchels are correctly implemented to have one on screen at all times. The sled will be destroyed if you hit the wall going too fast. The shield and shot are dependent on an energy system, with a bar displayed at the top of the screen. Finally, when the foundation is destroyed, an animation plays showing the prisoners escaping. I accomplished this using three tasks - a direction task, physics task, and display task. The direction task simply indicates where on the slider your finger is. The display task mainly just updates what is on the display. The physics task does most of the heavy lifting, calculating things such as position of objects, whether objects collide, and if the slider is destroyed.

SUMMARY EFFORT and ESTIMATE NUMBERS

I did a little bit extra this weekend to prepare for the demo, such as adjusting some numbers and trying to get my graphics a little smoother. This brought my total to 31.5 hours, meaning I took about 107% of the expected time. I put this under the "Fine Tuning" task.

3	2.5	3	0.5	
3		3	2.5	Y
9	1	6	3.5	Y
2	2	8	5.5	Y
8	10	16	15.5	Y
1.5	1	17.5	16.5	Y
2	3	19.5	19.5	Y
4	5	23.5	24.5	Y
3	2	26.5	26.5	Y
3	5	29.5	31.5	Υ
	2 4 3	1.5 1 2 3 4 5 3 2	1.5 1 17.5 2 3 19.5 4 5 23.5 3 2 26.5	8 10 16 15.5 1.5 1 17.5 16.5 2 3 19.5 19.5 4 5 23.5 24.5 3 2 26.5 26.5



From the SystemView screenshot, we can see the three tasks listed in order of priority, with the Direction Task being first with a priority of 7, Physics with 8 going second, LCD with 9, and lastly the Idle Task with 10. I thought it was interesting that the direction task ran for such a short time compared to the other tasks, but it makes sense as my direction task basically just had to check where on the slider I was touching, which does not take long.

I did not realize at first that the order of how I did my code in the physics task would have a significant impact. I ended up deciding to handle collisions after I updated the positions of all of my moving parts. That is, I did all the math to find out where stuff was, then checked for collisions. One thing I did not foresee was missed collisions if something was moving fast enough, but I never noticed this issue occurring so I decided it was good. Perhaps if this was an issue, I could check both before and after things moved. A lot of my edge cases were dealt with by basically checking if the object is anywhere beyond a certain limit, which made it easy to deal with for some of the edge cases.

For scaling my display, I mostly just eyeballed what I thought was a reasonable playing space. I started with the given numbers, then felt that some of the conversions were annoying so I decided to fudge some numbers.

If I had another two weeks, I would put a lot of effort into improving my graphics. Now that I have the base game done, I feel like the next logical step would be to start making the game look better. The display feels more time consuming that it is difficult to implement, so I feel like two weeks dedicated to it would see good progress made. I also had a bug where my program takes a noticeable amount of time to register where on the slider I'm pressing. It was not game breaking, so I did not bother to fix it before the final submission, but if I had more time I would definitely fix this as it becomes annoying once you notice it.