Operating Systems CMPT 424

–Lab 6 ———			
Goals	Memory protection with base and limit tracking This active learning exercise will you help you make progress on the practical aspects of developing your operating system.		
Instructions	 Look at your <i>i</i>Project 3 functional requirements as Issues in GitHub as part of the <i>"i</i>Project 3" milestone and make sure that everything is in there. Increase your memory from 256 bytes to 768 bytes. Be sure that you can map a memory partition number (0,1,2) to the appropriate base address (0, 256, 512). Add to your Process Control Block as necessary to keep track of where a given process is held in memory. Add memory protection fields (base and limit memory addresses) to your PCB. Add other new features as specified in your Issues and <i>i</i>Project 3. Test. (You should be really good at this by now. You better be!) Read chapter 8.3 in the 8th edition of our text again. Read chapters 14.1 and 14.3.3 in the 8th edition of our text. 		
Questions	1. What? 2. Why?		
Resources	 http://lwn.net/Articles/250967/ http://duartes.org/gustavo/blog/post/memory-translation-and-segmentation/ Chapter 13 in http://pages.cs.wisc.edu/%7Eremzi/OSTEP/ Chapter 15 in http://pages.cs.wisc.edu/%7Eremzi/OSTEP/ Code to test memory limits: A9 A9 A2 01 EC 13 00 AC 0B 00 8D F0 00 EE 0B 00 D0 F5 00 00 		
Grading	Your work on this lab will contribute to your grade for <i>i</i> Project3.		
Submitting	Commit your work to your private GitHub account in an appropriately -named folder. Make sure to tag your commit messages with the Issue number they	>load Process ID: 0 >run 0 >Memory access error from process 0 >	Log Sat, Jul 31st 2021, 4:17:25 pm 310 os Idle Sat, Jul 31st 2021, 4:17:19 pm 181 os Memory access error from process 0 Processes Round Robin PID PC IR ACC X Y Z Priority State Location No programs are in execution Memory 0x000 00 00 00 00 00 0x010 00 00 00 00 00 00 0x010 00 00 00 00 00 00 00 0x011 00 00 00 00 00 00 00
	address.	Hard Drive Image: Constraint of the state o	CPU No Instruction PC IR ACC X Y Z 000 0 0 0 0 0 0