Your name and company name: Aoid Bakhtiyar Repository https://github.com/ Abeeaad97 /Virtual-Memory								
Verify each of the following items with a corresponding checkmark. Incorrect items will incur a 5% penalty on the grade.								
Complete	Incomplete	CPSC-351: project 2: Virtual Memory						
M		Created the Virtual Memory project in C or C++ to translate logical to physical addresses fo a virtual address space of 2 ¹⁶ (65,536) bytes, using a page table and a TLB, using the specifications in this project assignment.						
Ø		Created a page table of 2 ⁸ entries, with a page size and a frame size of 2 ⁸ bytes, i.e., having a total of 256 frames, and a total physical memory of 65,536 bytes (256 frames times 256 bytes per frame).						
Ø		Program can read logical addresses and translate them to their physical addresses using a page table.						
K		Program can use a TLBand a page table to translate logical to physical addresses. The page number is extracted, then the TLB is consulted. In the case of TLB hits, extract the frame number from the TLB; for TLB misses, extract it from the page table (see figure).						
M		Program implements demand paging, it handles page faults by reading in a 256-byte page from backing store file backing_store.bin (a file of 65,536 bytes), and updating the page table and TLB.						
X		Uses standard C library functions fopen(), fread(), fseek(), and fclose().						
	٥	Your program reads the 1,000 logical addresses (you read that correctly!) from file addresses.txt, and translates them correctly to physical addresses using <code>getpage()</code> and <code>getoffset()</code> . Assertions for correct output against file <code>correct.txt</code> all pass.						
M		After completion, your program reports the page-fault rate, and the TLB hit rate.						
X		Once other elements of your program all work, modify your program to use virtual memory by modifying the physical address space to be smaller (use 128 page frames instead of 256). This will require your program to keep track of free page frames, and to implement the FIFO page-replacement policy (see section 9.4 of Silberschatz).						
	Ø	Implement a different virtual memory policy using the LRU page-replacement policy.						
X		Understand the code structure to the degree that the student could rewrite any section of the code from scratch.						
		Project directory pushed to new GitHub repository listed above using GitHub client.						

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