CIS 350 – INFRASTRUCTURE TECHNOLOGIES HOMEWORK # 4

NAME(S):(You may do this homework in groups of 2 students maximum.)					
Topics : The CPU and Memory (Chapters 7 and 8)					
Ex. 7.26, p. 236					
Ex. 7.2 a, b, p. 237					
Instruction: 20 LDA 50 (in d	lecimal : PC		MDR	IR	A
1. $PC \rightarrow MAR$	20	20	550	?	?
2. $MDR \rightarrow IR$					_
3. $IR[addr] \rightarrow MAR$					
4. $MDR \rightarrow A$					
5. $PC+1 \rightarrow PC$					
Instruction: 21 ADD 51 (in decimal 151)					
	PC	MAR	MDR	IR	A
1. $PC \rightarrow MAR$					
2. MDR→IR					
3. $IR[addr] \rightarrow MAR$					
4. $MDR+A \rightarrow A$					
5. $PC+1 \rightarrow PC$					_
Ex. 7.3, p. 237					

Ex. 7.7 a, p. 237

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Ex. 8.16, p. 272. Also briefly explain how cache memory works.

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Ex. 8.18, p. 272

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