

GLS University

Semester -1

Computer organization and Architecture

Assignment – 2

Sr.No.	Questions
1.	<p>Write 8085 Assembly language program code to perform the below-mentioned operations.</p> <p>i) Store 99H & 34H at memory location 0001H & 0002H respectively, using loading instructions.</p> <p>ii) Swap the data of both the memory locations.</p> <p>iii) Perform 'XOR' operation on the Accumulator such that</p> <p>(i) Output should display COMPLEMENT of the number stored in Accumulator.</p> <p>(ii) Store the data into memory locations 0003H & 0004H respectively.</p>
2.	<p>Write 8085 Assembly language program code to perform the below-mentioned operations.</p> <p>i) Store 99H & 34H at memory location 0001H & 0002H respectively, using loading instructions.</p> <p>ii) Complement the data of memory location 0001H.and store the result in the memory location 0003H</p> <p>iii) Perform 'AND' operation on the Accumulator such that output should display 00H</p>
3.	<p>Write 8085 Assembly language program code to perform the below-mentioned operations.</p> <p>i) Move the immediate data 16H into register D. Transfer the data from register D into memory location 0001H.</p> <p>ii) Subtract value of register D with the immediate value 19H. Store the result in memory location 0002H.Also move the result into register C.</p> <p>iii) Add the register C value with carry with the immediate data 54H. Store the result in the memory location 0003H</p>
4.	<p>Write 8085 Assembly language program code to perform the below-mentioned operations.</p> <p>i) Store 19H & 34H at memory location 0001H & 0002H respectively, using loading instructions.</p> <p>ii) Find the larger number data from both the memory locations using logical operations. And store the larger data into memory location 0003H.</p> <p>iii) Perform reverse of the number stored at location 0001H. Store the result in the memory location 0003H.</p>

	iii) And decrement of the number at memory location 0003H. Store it in the memory location 0004H.
5.	<p>Write 8085 Assembly language program code to perform the below-mentioned operations.</p> <p>i) Store 18H & 19H at memory location 0001H & 0002H respectively, using loading instructions.</p> <p>ii) Reverse the data of memory location 0001H (Use RLC instruction for it).and store the result in the memory location 0003H.</p> <p>iii) Add the data of memory locations 0002H and 0003H. Store it into memory location 0004H.</p>