

University of Central Punjab

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FACULTY OF INFORMATION TECHNOLOGY

Computer Organization and Assembly Language

Lab 06									
	+	Arithmetic & Logical instructions							
	+	Selective bit setting/clearing/complimenting							
Topic	+	Shifting and Rotations variations							

Part 2

Question 1: Let Ax=0xABCD;

Set 2nd,5th,8th, 14th of ax.

then invert 1st, 5th, 9th, 10th and 14thbit of ax. then clear the L.S.B and M.S.B bit of ax.

Problem #2:

Write an assembly language program that will count the number of occurrences of 0x5 and save the result in variable "total".

Without Using CMP and SUB instructions.

Array1 (byte size)

Index	0	1	2	3	4	5	6	7		
Value	0x5		0x9	0x5	0x	4	0xA	0xB	0x5	0x9



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Problem #3:

Write an assembly language program to count number of ones in a value of word size. Use logical operators.

Binary of F37E is: 1111 0011 0111 1110

For-example

Number dw: F37E h

Count db: 12

Problem #4:

Write an assembly language program check whether the given number is greater than by 20 or not.

Without using CMP and SUB