



University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)

FACULTY OF INFORMATION TECHNOLOGY

Computer Organization and Assembly Language

Lab 06

Topic	<ul style="list-style-type: none">▪ ---▪ ---▪ Shifting and Rotations variations▪ Bubble Sort Algorithm
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Part 2

Problem #1:

Write an assembly language program to count the number of ones in register ax.
Let value in ax is 0xCD45

solution:

count: db 8

Problem #2:

Declare a byte type array of 10 element then write a program to count odd numbers in array and store count in a variable “count”. Implement this problem without updating the actual values of the array elements. Do not make an another array.

Note: use logical operations....

Index	0	1	2	3	4	5	6	7	8	9
Value	0xAB	0x7E	0xAB	0xED	0x4B	0x44	0xAA	0xCC	0x12	0xEE

Count should be 4



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Problem #3:

Implement Bubble Sort Algorithm as discussed in class.