

# Final Ödevi

## ASSEMBLY LANGUAGE PROGRAMMING

### 2009-2010 FALL SEMESTER LAB. WORK

- 1) Write a program which receives the starting address of a text (in SI) stored in data segment and returns the number of palindrome words (palindrome means that a word or phrase that reads the same backward as forward) in the text in CX. Assume that the only word delimiters are space=20H or full stop=2EH (There is space after fullstop.). The text is ended with the character '\$'. (20 p)
- 2) Write a program which lists the least common multiple of two numbers defined in data segment. (20 p)
- 3) Write a program which uses a recursive procedure to calculate the factorial of a given number. (20 p)
- 4) Write a program which will place the horizontal and vertical parities of 100 7-bit-bytes of data in DS as shown below. Use even parity if the least significant bit of your student number is also even; else do otherwise. (40 p)

	Bit 7			Bit 0
Byte 0				P
Byte 1				P
Byte 2				P
				P
Byte 98				
Byte 99				
	P		P P P	