

BIL 101 INTRODUCTION TO COMPUTER SCIENCE

HW #03

Due Date: 05/10/2017 - 09:00

1. Write an assembly program which creates two variables named a and b, assigns them some integer and calculates **$a \bmod b$** and prints the result to the screen. Upload your .asm file on moodle. The file name should be in the form of :
number_name_surname (exp: 17090909_ayse_serbetci.asm).
Different file name will lose point.

**Question 2,3 and 4 will be submitted in a single pdf file. The file name should be in the same in the form of :
number_name_surname (exp: 17090909_ayse_serbetci.pdf).
Different file name will lose point.**

2. List the components included in the kernel of an operating system and explain each with a small paragraph (in Turkish).
3. A file system is the part of operating systems that controls how the data is stored and retrieved. Explain the file systems of UNIX and Windows in detail and list advantages and disadvantages of both (one or two pages in Turkish).
4. If a typist types 60 words per minute (wherea word is considered five characters), how much time would pass between typing each character? If a multiprogramming operating system allocated time slices in 10 millisecond units and we ignore the time required for process switches, how many time slices could be allocated between characters being typed? Show and explain your steps.