

# BIL 101 INTRODUCTION TO COMPUTER SCIENCE

## HW 04

**Due to 26/10/2016 - 09:00**

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### **IMPORTANT!**

Submit a .asm and a .py file to moodle. The name of your files should be:

**YOURNUMBER\_YOURNAME\_YOURSURNAME**

Any other name formats will lose points.

### **PART 1 (Submit to moodle / .asm file)**

Write an assembly code that finds the number of matching digits of two binary numbers starting from the rightmost digit.

Examples:

1. 5 digits matches for 10101100 and 11101100
2. 3 digits matches for 11100111 and 11111111
3. 2 digits matches for 01010101 and 01000001

### **PART 2 (Submit to moodle / .py file)**

Write a python code that finds the number of matching digits of two integers starting from the rightmost digit.

### **PART 3 (Submit to Nur Banu Albayrak / written by hand)**

1. Write a report of at least one, at most two pages about dispatching and scheduling components of OS kernels. Explain at least 3 scheduling algorithms and write one of them step by step in your report.
2. Write a report of at least one, at most two pages about deadlock handling methods. Give a detailed example of a deadlock situation and try to find a solution by using one of the deadlock handling methods.