## Assembly and Machine Language Homework 3

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Your task is to write an assembly program that reads 5 integers from the standard input and stores them in 32 bits as follows. The inputs represent date and time (Shamsi) and consist of **year**, **month**, **day**, **hour** (in 24-hour format), and **minute** respectively. Your program must store the binary form of all these numbers in just a single 32-bit register according to the following encoding format:

Sum = 32 bits

Notice that the most significant bit is always zero. Your program must print 4 lines of output:

- 1. The content of the register printed as an integer,
- 2. The content of the register printed in the **Binary** form,
- 3. Day of the year (how many days since the beginning of the year),
- 4. Week of the year.

Your assembly program must comply with the following set of rules:

- You can only use the commands you have learned so far in the class.
- You have to use the **read\_int**, **print\_int**, and **print\_char** functions from the textbook for **I/O**.
- Your assembly code must not be similar to other students' code. Similar codes will receive a **negative score**.
- The order of the inputs and outputs in your program must be exactly the same as what instructed here (look at the example below).
- Please only upload the ".asm" file on the courses.kntu.ac.ir website.

Sample Input :	output :
1397	1465396311
8	01010111010110000010110001010111
5	221
17	31
23	