

CSC 215
Procedural Programming with C
Lab #1
printf, scanf, and if, if-else statements

Tutorial Section

- Printf:
 - Printing different primitive types.
 - Controlling the number of digits.
- Scanf:
 - Scanning different primitive types.
 - Char scanning problem and how to fix it.
- if, if-else statement.

Lab Section

Write a program that reads the hours, minutes, seconds, and the period (AM/PM). You must read the seconds as a float and the period as a char (either 'a' for AM or 'p' for PM). Then display them as follows:

HH:MM:SS.SS AM or PM

The hours must show at least 2 digits. The minutes must show 2 digits. The seconds must show 2 digits before and after the floating point.

You must also check the following conditions:

- Hours must be positive.
 - Minutes must be positive and less than 60.
 - Seconds must be positive and less than 60.
 - Period must be either 'a' or 'p'.
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- Show the program to you lab instructor before you leave.
 - In case you couldn't complete the program, you can submit it through LMS.

- Output:

```
$ ./lab1
Enter the hours: -20
ERROR: Incorrect hours
$ ./lab1
Enter the hours: 240
Enter the minutes: 64
ERROR: Incorrect minutes
$ ./lab1
Enter the hours: 240
Enter the minutes: 5
Enter the seconds: 3.584684684
Enter the period (a for AM, p for PM): a
The Time is: 240:05:03.58 AM
```

SUBMIT POLICY: -

- Name the .c file using the follow naming convention:
Lab1_ID_FirstName_LastName.c
 - **Example:** Lab1_123456789_Marwan_Almaymoni.c
- Use a comment to write your name and ID at the beginning of the code.
- The Deadline is: 16/2/2015 before the class starts.
- Late submissions will not be accepted.
- Email submissions will not be accepted.
- **-1 Point** for not following the naming convention.
- **-1 Point** for not writing your name and ID in the code.
- **-8 Points** if the submitted program didn't work due to syntax errors.
- **-10 Points** for cheating and helping others cheat.