Introduction to Computer Science Lab II

CIEE102, Spring 2020

Lab 4

1. Write a C program to accomplish the following tasks. Note that each task can only be completed with a single C statement.

   a. Print unsigned integer 40000 left justified in a 15-digit field with 8 digits.
   b. Read a hexadecimal value into variable *hex.*
   c. Print 200 with and without a sign.
   d. Print 100 in hexadecimal form preceded by 0x.
   e. Read characters into array *s* until the letter p is encountered.
   f. Print 1.234 in a 9-digit field with preceding zeros.
   g. Read a time of the form hh:mm:ss, storing the parts of the time in the integer variables *hour, minute* and *second*. Skip the colons (:) in the input stream. Using the assignment suppression character.
   h. Read a string of the form “characters” from the standard input. Store the string in character array *s.* Eliminate the quotation marks from the input stream.
   i. Repeat g without using the assignment suppression character.

2. Write a program that loads 10-element array number with random integers from 1 to 1000. For each value, print the value and a running total of the number of characters printed. Print the total number of characters output for all values up to and including the current value each time the current value is printed. Sample output is following: (You must use %n)

Value	Total Characters
342	3
1000	7
963	10
6	11