**Instructor:** Professor Neena Kaushik  

**Office hours (in AT 203):** Mondays: 3:15 to 4:15 p.m.  
Wednesdays: 10 to 11 a.m.  
and by appointment  

**Email:** kaushikneena@fhda.edu  

**Course website:** http://www.deanza.edu/faculty/kaushikneena  

**Lecture:** 12:30 - 2:10 p.m. in AT 312 (1:30 – 1:35 p.m. break) (Mondays & Wednesdays)  

**Lab:** 2:15 - 2:40 p.m. in AT 312 (Mondays & Wednesdays)  

**Assignment due date:** November 19  

<table>
<thead>
<tr>
<th>Part</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program works correctly</td>
<td>25</td>
</tr>
<tr>
<td>*If program does not work as per specifications, you may get 0 points</td>
<td></td>
</tr>
<tr>
<td>Output with three test cases</td>
<td>25</td>
</tr>
<tr>
<td>Comments and variable names properly used</td>
<td>20</td>
</tr>
<tr>
<td>Header</td>
<td>20</td>
</tr>
<tr>
<td>Program and output sheets are stapled properly</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
</tr>
</tbody>
</table>

1) Please submit your program in hard copy along with the output  

2) Please use comments in your program. Please name the variables so that they indicate what the variable does in the program. A maximum of 20 points will be deducted if variable names and comments are not used properly.  

3) Please include the following header in your program. A maximum 20 points will be deducted for the header not being present in the program.  

/***************************************************************************/  

** Program written by: Your name  

** Inputs: List the inputs to the program  

** Outputs: List the outputs from the program  

** What the program does: Say what the program does  

***************************************************************************/
ASSIGNMENT 8

Write a C program which gives the digit just before the most significant digit of any number greater than one digit.

1) You have to use a function which reads the number first.
2) You have to use a function which finds the digit before the most significant digit.
3) The main program should call both these functions. It should first print the number and then the digit before the most significant digit.
4) You have to use only for loop(s).

<table>
<thead>
<tr>
<th>Function prototype</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 int read_number(void)</td>
<td>Upward</td>
</tr>
<tr>
<td>2 int digit_before_msd(int number)</td>
<td>Downward and via return</td>
</tr>
</tbody>
</table>

How to call the functions from main

1 number = read_number();
2 d_msd = digit_before_msd(number);
EXAMPLES:

1)

INPUT
34

OUTPUT
The number that you entered is 34
The d_msd is 4

2)

INPUT
9876

OUTPUT
The number that you entered is 9876
The d_msd is 8

3)

INPUT
21111

OUTPUT
The number that you entered is 21111
The d_msd is 1