

Northeastern University
Khoury College of
Computer Sciences

CS1100: Assignment 10

Automation with Macros

To complete this assignment you must submit an electronic copy to BlackBoard by the due date. Download the starter file and save the file under the name *CS1100.LastName.A10* and where *LastName* is your last name.

To download the file from Google Drive, click the download button -- do not open the files in Google.

Knowledge Needed



This lab requires the following Excel functions and techniques:

- • Keystroke macros
- • Text processing functions: MID, LEN, VALUE
- • Paste Special
- • Excel help and online documentation

Background

Janine received a file from her accounting group that contains customer names and balances owed. Due to a programming error, the values are stored as text and contain three dollar signs in front of the number and therefore her calculations don't work.

Your task is to create a macro named *StripDollarSigns* that strips the three leading dollar signs from the text and converts the text to a number. You should use the **MID**, **LEN**, and **VALUE** functions to accomplish this, but you'll need to place the value into a temporary cell and then use Paste Special to copy it as a value over the current cell. This macro works on a single cell only.

Assign the macro a short-cut key of CTRL-SHIFT-C.

Run the macro on all of the cells and ensure that the calculation of the total works properly.

Here's a [video explanation and demo](#) of what the macro should do.

Note that you need to save your file as a "macro-enabled" Excel file (having a *.xslm* extension).

You can test whether your macro is correct by going to some random cell in your worksheet, type in "\$\$\$34.7" and then click on that cell and press CTRL-SHIFT-C. The macro should convert the cell to contain "34.7" and the cell should still be the active cell.

	A	B		A	B	
1	Customer	Balance		1	Customer	Balance
2	Kieran, James	\$\$\$1344.55		2	Kieran, James	1344.55
3	Ng, Valerie	\$\$\$8897.45		3	Ng, Valerie	8897.45
4	Talbot, Max	\$\$\$1883.33		4	Talbot, Max	1883.33
5	Kelly, Christine	\$\$\$705.91		5	Kelly, Christine	705.91
6	Seibolt, Ann	\$\$\$5549.1		6	Seibolt, Ann	5549.1
7				7		

GRADING RUBRIC

This rubric is intended to guide graders in their evaluation of the students' submissions.

- • Macro works partially - points deducted based on what works
- • No keystroke short-cut to run macro (-5 points)
- • Active cell after running is not the cell containing the value (-5 points)
- • Macro does not work when the cell containing the text is active cell (-5 points)
- • Macro does not convert the text to a number (-5 points)
- • Macro does not work on any cell in the worksheet (-10 points)
- • Extra text, cells contents, or other "droppings" from running macro (-20 points)