**COL 216 Computer Architecture**

**Lab-3**

**Evaluation of Expression With Input/Output**

We haven’t used ‘UsefulFunctions.s’ since we were using Version 1.9.0 of ARMSim. We read the file(‘expr.txt’) using simple SWI instructions. The output is displayed on the console(stdout).

To run the code, load the files ‘lab3.s’ and ‘lab2code.s’ on ARMSim. To evaluate a new expression enter it in ‘expr.txt’ and run again.

Example:

* (10+10\*(20-10))

Answer: 200

* 123\*10-(123\*9)

Answer: 123

* 1\*(2\*(3\*(4\*(5\*6))))

Answer: 720

End Of File

Note: We assumed that the expression only contains digits [0-9], symbols {+, -, \*}, and parentheses, as given in the assignment statement.

Rajbir Malik 2017CS10416

Rajat Jaiswal 2017CS50415