
ASSEMBLY LANGUAGE PROGRAMMING PROJECT

Project Title: - **"Expression Calculator"**

Description: - User enters an arithmetic expression then your program should evaluate the expression and get the result if the input is right.

- Details: -**
- Allowed inputs in the expression are maximum 3 digits numbers, '+', '-', '*', '(', and ')'
 - Any button can be chosen for the '+', '-', '*', '(', ')', and '='.
 - Expressions inside '(', and ')' will be executed first then the '*' and after that the '+', '-'.
 - If the precedence is equal, the left operator will be executed first.
 - Bonus: LCD screen to contain two lines. The top line will contain the expression while the second one will contain the result.

Example

The input
screen

100 + 3 * 15 - (3 * 5)

130

You will submit:

- A complete flow chart for your program
- Procedures description that contains
 - Task accomplished by the procedure.
 - List of input parameters and their usage.
 - Description of any value calculated/returned by the procedure.
 - Preconditions that must be satisfied before the procedure is called.