

PROLOGUE

FOR ALL ASSIGNMENTS

- Attach a *prologue* for all assignments.
- Use sample *prologue* sheet in the course material, customize it for every assignment.
- *Prologue* makes it easy to separate assignments for grading purpose.

EXERCISE 8

AFTER CHAPTER – 20

PROBLEM

Evaluate the validity of the scopes in the following expression implementing stacks. Ignore the operators and operand in the expression while checking the validity of the expression.

Input Expression:

$\{x + (y - [a + b]) * (c - [(d + e)] + k)\} / (h - (j - (k - [l - n])) + \{u + [m * (p - q)] / r\}$

Print each scope or symbol encountered while scanning the expression and what resulting action taken for each symbol input.

Read all symbols from an input file and write the result to an output file.

DELIVERABLES

Write the prolog and fill up all information for this exercise as given in the sample. Submit the source code, input and the output. The program is expected to be well commented. Place your program as soft copy on assigned shared drive for students of this course.

DUE DATES

Assignments are due on the following week after completing the chapter discussion.