Assignment 3

Professor J. Moon CECS-524-Advance topics in Programming Language

September 17, 2018

Question 1: Write regular expression to capture the hexadecimal floating-point values. A hexadecimal floating-point value begins with 0x or 0X, may contain the digits 0-9 and a-f/A-F, and has an optional fractional portion (beginning with a dot) and a mandatory exponent (beginning with P or p). There may be digits to the left of the dot, the right of the dot, or both, and the exponent itself is given in decimal (contains only the digits 0-9), with an optional leading + or - sign. A hexadecimal floating-point value may end with an optional F or f (indicating "long"-single precision) or L or l (indicating "long"-double precision). With using the following expressions only;

- 1. A character
- 2. The empty string
- 3. Parenthesis
- 4. Concatenation
- 5. "or"
- 6. Kleene star. (Please use superscript star symbols, *)

Answer ::