Assignment-1

Note: Questions from the textbook are marked with additional comment.

You can find them at the commented location. Each question worth 1 grade point.

1.Write Context Free Grammar/BNF for creating Boolean expressions and identifiers in C language.

2.From the following grammar remove indirect left recursion (Question 9 page 194).

S🡪Aa/Bb A🡪Aa/Abc/c/Sb B🡪bb

3.For the Grammar mentioned below, check whether begin A=B+C; C=A-B; B=c end is a valid program or not. Do not worry about blank spaces?

<program->🡪begin <stmt-list> end

<stmt-list>🡪<stmt>/<stmt>;<stmt-list>

<stmt>🡪<var>=<expression>

<var>🡪A/B/C

<expression>🡪 <var>+ <var>/<var>- <var>/<var>

4.Similar to this grammar, can you please write a grammar for checking whether a program written in c language is correct or not. Do not include preprocessor in program? (try to include grammar for each construct)

5.Can you write grammar for HTML language? If yes, why if not why not?

🡨-----End-------🡪