CECS 524 Unit 3 Assignment 1 Creating a Language Due 9/23/22 SOC (12:00pm)

1. Create a project in your favorite IDE (Netbeans, Eclipse, etc) named SIL (Simple Interpreted Language.
2. In ANTLRWorks create a new grammar. File->New. ANTRL 3, check every checkbox in the New dialog (Int, ID, String, etc)
3. You will see an ANTLR grammar with the lexer rules (ID, Int, String, etc) already defined for you
4. Add @header { package Unit3;} and @lexer::header{ package Unit3;}
5. Add these rules
   1. program : statement+;
   2. statement :
   3. print
   4. | println;
   5. print : ‘PRINT’ STRING {System.out.print($STRING.text);} ;
   6. println : ‘PRINTLN’ STRING {System.out.println($STRING.text);};
6. Generate the grammar. Map the output to your project source
7. Create an input file of statements for our language “SIL”. There are only two types: PRINT and PRINTLN. Tell Netbeans where to find you code.
8. Add the ANTLR library to you IDE’s search path. In Netbeans under the Project, right click on Libraries and select Add Jar and then select the "C:\antlr\antlr-3.3-complete.jar" or wherever you have installed ANTLR.
9. Turn in the grammar to BB dropbox Unit 3 Assignment 1.