CSEN1002 Compilers Lab, Spring Term 2020 Task 8: ANTLR Parsing 1

Due: 05.05.2020 by 23:59

1 Objective

For this task you will use ANTLR to implement an SDD for a variant of Exercise 9-5 of CSEN1003's Practice Assignment 9. A presentation for semantic analysis in ANTLR is available on the course web site.

2 Requirements

• Use ANTLR to implement the following SDD which converts an input binary number to the equivalent decimal number.

• For example, here are some inputs and the corresponding correct outputs.

Input	Output
101.101	5.625
100.11	4.75
0.10	0.5

3 Evaluation

Your SDD will be tested using ten inputs. Each correct output is worth one point, hence a total of ten points.

4 Submission Instructions

- The submission deadline is May 5, 2020 by 23:59. Late submissions will receive zero credit; thus, make sure that you do not submit at the last moment to avoid delays due to any unpleasant technical surprises.
- Please submit only one grammar file named after your tutorial number, ID, and name (with the extension ".g4") using the following format.

$$\mathtt{T}XX_YY_ZZZZ_Name.\mathtt{g4}$$

For example, the following is a possible file name.

- Use the template file posted with this description to the course web site.
- Submissions which are not in the required format will not be considered.
- You will receive an e-mail containing the submission link.