

CSEN1002 Compilers Lab, Spring Term 2021  
Task 10: ANTLR Parsing 2

Due: 29.06.2021 by 23:59

## 1 Objective

For this task you will use ANTLR to implement an SDT or an SDD for checking converting a binary number to a decimal number.

## 2 Requirements

- The grammar of your SDT/SDD should generate all binary strings, where a binary string is a string over the alphabet  $\{0, 1\}$ .
- In your SDT/SDD, the start variable should have an attribute `val` whose value is the decimal representation of the input binary number. For example, on input `1101`, the output should be `13` and, on input `00011`, the output should be `3`.

## 3 Evaluation

- Your SDD will be tested using ten inputs. Each correct output is worth one point, hence a total of ten points.
- You may evaluate your work with Task 9 during the week starting June 21st, if you like. Otherwise, your online submission (see below) will be used for evaluation.

## 4 Online Submission

- You should submit your code at the following link.

<https://forms.gle/LiwBXNWpT2XGAT177>

- Submit one only one grammar file named after your tutorial number, ID, and name (with the extension `".g4"`) using the following format.

`TXX_YY_ZZZZ_Name.g4`

For example, the following is a possible file name.

`T07_37_0000_John_Smith.g4`

- Online submission is due on Tuesday, June 29, by 23:59.