

**A Report on**

***LEXER IMPLEMENTATION USING ANTLR4 (SCANNER PART)***

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# *EXECUTION INSTRUCTIONS (GROUP – 4)*

# Step 1: Install ANTLR4 and Python runtime (if not already installed)

pip install antlr4-python3-runtime==4.13.0

# Step 2: Download ANTLR4 JAR file (if not already downloaded)

curl -o antlr-4.13.0-complete.jar https://www.antlr.org/download/antlr-4.13.0-complete.jar

# Step 3: Set environment variable for the ANTLR JAR

$Env:ANTLR\_JAR = “antlr-4.13.0-complete.jar”

# Step 4: Generate the lexer from grammar

java -jar $Env:ANTLR\_JAR -Dlanguage=Python3 .\**MyLexer.g4**

# Step 5: Run the lexer test on input file

python **test\_lexer.py** **input.txt**