



**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
```