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**CSE439s: Design of Compilers**

**Parser and Scanner for Tiny Language**

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**To Check the functionality of Scanner and LL(1) Parser I have made 5 codes**

* **2 Codes are correct**
  + The first one extract prime number from 1 to 100
  + The second one reads n from the user and extracts all odd numbers from 1 to n and sums them
* **3 Codes are wrong**
  + 1. Replace equal operator with assign operator
  + 2. Add a semicolon in the last line which causes an error
  + 3. Delete necessary semicolon

**The project has 3 folders and 5 files**

1. **Correct\_Codes**

This folder contain the two correct codes

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1. **Wrong\_Codes**

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1. **List\_of\_Tokens**

The scanner generates List\_of\_Tokens.txt file for each code

**Code Files:**

1. grammer.py (Independent file)

Contain all grammar rules for tiny language and first and following for each terminal rule

2. Tokens.py (Independent file)

Contain all tokens list

3. Scanner.py (depending on the Tokens.py file)

Contain the Scanner class

4. Parser.py (depending on grammar.py file)

Contain the Parser class

5. Tiny\_compiler.py

Main code that wraps all previous codes

**Result:**

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Correct Codes

Wrong Codes