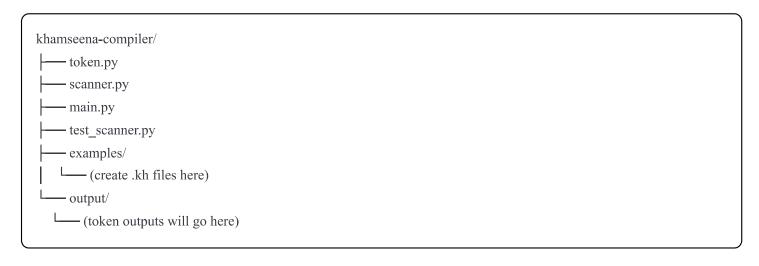
Khamseena Scanner - Quick Start Guide

Get up and running in 5 minutes! ϕ

Step 1: Set Up Project Structure (2 minutes)

Create the following folder structure:



Step 2: Create the Files (1 minute)

Copy the code into these files:

- (token.py) Token class and definitions
- (scanner.py) Main scanner implementation
- (main.py) Command-line interface
- (test_scanner.py) Unit tests

Step 3: Create a Test Program (1 minute)

Create examples/test.kh:

khamseena			

```
fetch basics

recipe brew() {
    count x = 10;
    serve "Hello, Khamseena!";
    serve "Value: " + x;
    deliver 0;
}
```

Step 4: Run the Scanner (30 seconds)

bash

python main.py examples/test.kh

Expected output:

Scanning file: examples/test.kh					
KHAMSEENA	SCANNER -	TOKEN	OUTPUT		
Total Tokens: 20)				
TOKEN TYPE	VALUE	======================================	POSITION		
FETCH	fetch	1:1			
IDENTIFIER RECIPE	basics recipe	1:7 3:1			
	тестре	3.1			
✓ Scanning com		ssfully!			
✓ Total tokens:	20				

Step 5: Run Tests (30 seconds)

bash

python test_scanner.py

You should see all tests passing!



Common Commands

Scan a file

bash

python main.py examples/test.kh

Save token output to file

bash

python main.py examples/test.kh output/tokens.txt

Run unit tests

bash

python test_scanner.py

Use in your own Python code

```
python
from scanner import Scanner
source = 'count x = 10;'
```

scanner = Scanner(source) tokens = scanner.tokenize()

print(tokens)

Troubleshooting

ImportError: No module named 'token'

Problem: Python's built-in (token) module is conflicting

Solution: Rename (token.py) to (khamseena_token.py) and update imports:

python

In scanner.py

from khamseena token import Token, TokenType, KEYWORDS

File not found error

Problem: Running from wrong directory

Solution: Make sure you're in the (khamseena-compiler/) directory:

bash

cd khamseena-compiler python main.py examples/test.kh

Lexical Error messages

Problem: Syntax error in your .kh file

Solution: Check the error message - it tells you exactly where the problem is:

Lexical Error at line 5, column 12: Invalid character '@'

What's Next?

After the scanner works:

- 1. **Parser** Build syntax trees
- 2. Semantic Analyzer Type checking
- 3. Code Generator Generate target code

Need Help?

- Check README.md for detailed documentation
- Review test_scanner.py for usage examples
- Look at examples/*.kh for sample programs

You're ready to start! Happy coding! 🚀