Program yang akan dibuat:

hello world

aritmetika

for

if-else

fungsi

komentar

permainan tebak angka

Analisis leksikal (membuat lexer):

|  |  |
| --- | --- |
| Token | Definisi token |
| NAME | ‘[a-zA-Z\_][a-zA-Z0-9\_]\*’ |
| NUMBER | ‘t.value = int(t.value)’ |
| STRING | ‘\”.\*?\’ |
| PRINT | ‘Cetak’ |
| FOR | ‘Untuk’ |
| TO | ‘Sampai’ |
| IF | ‘Jika’ |
| THEN | ‘maka’ |
| ELSE | ‘Jikatidak’ |
| FUNCTION | ‘Fungsi’ |
| ARROW | ‘=>’ |
| COMMENT | ‘%’ |
| PLUS | ‘+’ |
| MINUS | ‘-‘ |
| TIMES | ‘\*’ |
| DIVIDE | ‘/’ |
| EQ | ‘==’ |
| LT | ‘<’ |
| GT | ‘>’ |

Analisis sintaksis (membuat parser):

REFERENSI:

<https://sly.readthedocs.io/en/latest/>

<https://www.geeksforgeeks.org/how-to-create-a-programming-language-using-python/>