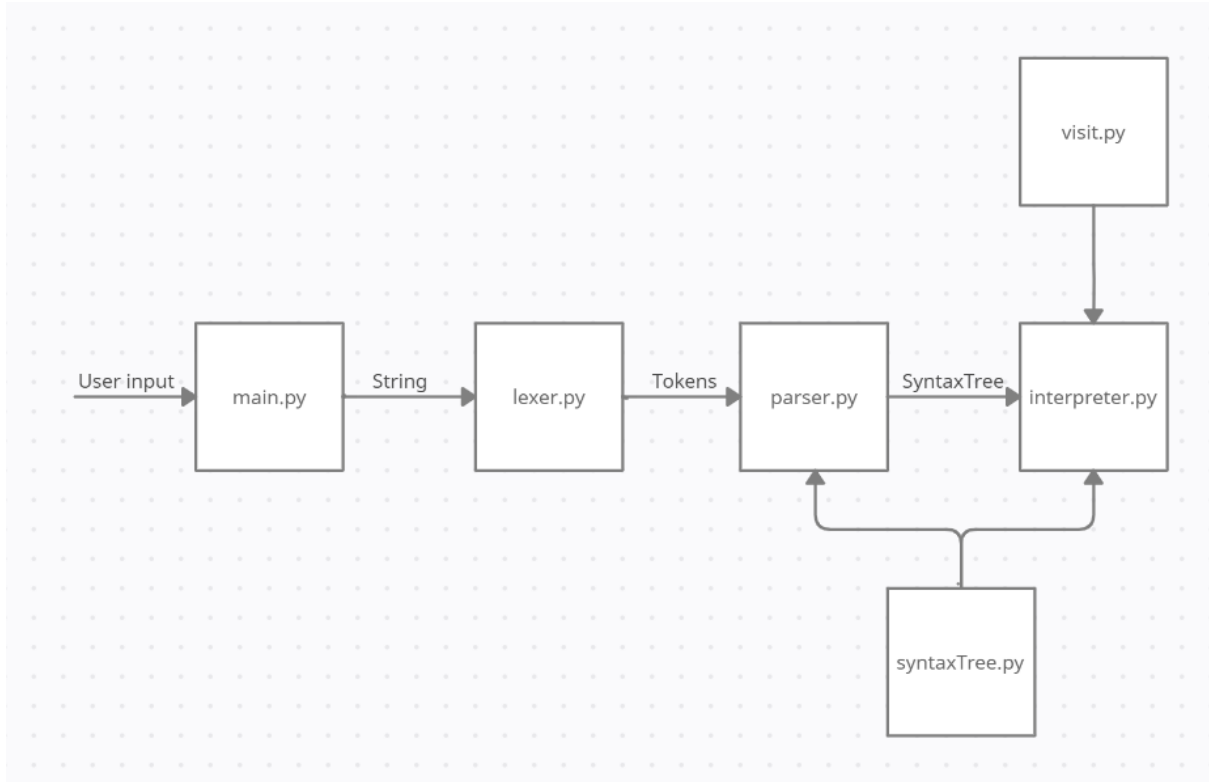


SCHEMAT PROGRAMU



TOKENY

Zarezerwowane:

SOLVE, FOR, OVER, LIMIT, TENDS, WHERE, LEFT, RIGHT, FROM, TO, DIFFERENTIATE, INTEGRATE, VARIABLE, SIN, COS, TG, CTG

Opis tokenów:

ADD = "+"

SUB = "-"

MUL = "*"

DIV = "/"

POW = "^"

EQ = "="

LP = "("

RP = ")"

NUM = "\d+\.\d+|\d+"

STR = '[a-zA-Z_][a-zA-Z0-9_]*'

GRAMATYKA

- Rule 0 S' -> command
- Rule 1 command -> equation
- Rule 2 command -> solve
- Rule 3 command -> differentiate
- Rule 4 command -> integrate
- Rule 5 command -> limit
- Rule 6 equation -> equation expression
- Rule 7 equation -> expression
- Rule 8 expression -> expression1
- Rule 9 expression -> expression ADD expression1
- Rule 10 expression -> expression SUB expression1
- Rule 11 expression1 -> expression2
- Rule 12 expression1 -> expression1 MUL expression2
- Rule 13 expression1 -> expression1 DIV expression2
- Rule 14 expression2 -> expression3
- Rule 15 expression2 -> expression2 POW expression3
- Rule 16 expression3 -> LP expression RP
- Rule 17 expression3 -> VAR
- Rule 18 expression3 -> NUM
- Rule 19 expression3 -> SUB NUM
- Rule 20 expression3 -> trig
- Rule 21 trig -> SIN LP expression RP
- Rule 22 trig -> COS LP expression RP
- Rule 23 trig -> TG LP expression RP
- Rule 24 trig -> CTG LP expression RP
- Rule 25 solve -> SOLVE FOR LP vars RP EQ LP nums RP equation
- Rule 26 vars -> vars VAR
- Rule 27 vars -> VAR
- Rule 28 nums -> nums NUM
- Rule 29 nums -> NUM
- Rule 30 differentiate -> DIFFERENTIATE equation OVER VAR
- Rule 31 integrate -> INTEGRATE FROM expression3 TO expression3
equation OVER VAR
- Rule 32 integrate -> INTEGRATE equation OVER VAR
- Rule 33 limit -> LIMIT equation WHERE VAR TENDS TO NUM

Rule 34 limit -> LIMIT equation WHERE VAR TENDS TO NUM FROM side

Rule 35 side -> LEFT

Rule 36 side -> RIGHT