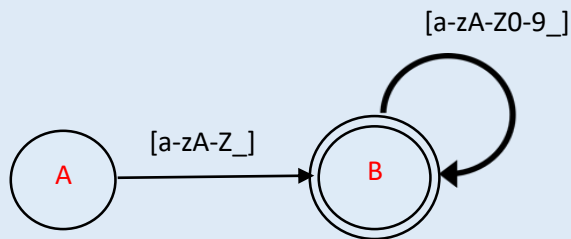


Lexical Analyzer

Separators of Symbol Table and tokenize:

- { + - * / : = ; . () ' ' \n }

DFA Machine for Identifiers:



- " _ _ " is not correct.

Syntax Analyzer

Grammar of our language:

$E \rightarrow TR$

$R \rightarrow +TR \mid -TR \mid \epsilon$

$T \rightarrow FW$

$W \rightarrow *FW \mid /FW \mid \epsilon$

$F \rightarrow id \mid (E) \mid \epsilon$

Parse Table:

	id	+	-	*	/	()	\$
E	TR	#	#	#	#	TR	#	#
R	#	+TR	-TR	#	#	#	ϵ	ϵ
T	FW	#	#	#	#	FW	#	#
E	#	ϵ	ϵ	*FW	/FW	#	ϵ	ϵ
F	id	#	#	#	#	(E)	#	#

Compiler Design

Method of calculating mathematical Expressions:

- Infix to Postfix conversion algorithm.

Example:

Input: Infix expression - **A+B*(C/D-E)**

Output: Postfix expression- **ABCD/E-*+**