|  |  |  |
| --- | --- | --- |
| LANGUAGE NAME | : | **Zb(Zee – Flat)** |
| EXTENSION NAME | : | **.zf** |
| PROGRAMMING LANGUAGE | : | **Java** |
| TARGET LANGUAGE | : | **Haskell** |
| CASE SENSITIVE | : | **No** |
| COMMENTING | : | **#. .#** |
| OPERATORS | : | **+ - / \* % ^ =** |
| DELIMITER | : | **;** |
| FREE FIELD | : | **Yes** |

CONTEXT FREE GRAMMAR

|  |  |  |
| --- | --- | --- |
| <letter> | ::= | a|b|c … |z|A|B|...|Z |
| <number> | ::= | 0|1|...|999 |
| <openpar> | ::= | ( |
| <closepar> | ::= | ) |
| <openbrace> | ::= | { |
| <closebrace> | ::= | } |
| <delim> | ::= | ; |
| <variable> | ::= | <letter>|<letter><variable> |
| <mdasops> | ::= | +| -| /| \*| %| ^ |
| <logops> | ::= | AND|OR|NOT |
| <equ> | ::= | = |
| <relops> | ::= | >|<|>=|<=|==|!= |
| <keyword> | ::= | if|then|else|input|print|func |
| <term> | ::= | <number>|<variable> |
| <expression> | ::= | <term><mdasops><term> |
| <equation> | ::= | <variable><equ><expression><delim>  | <variable><equ><term ><delim> |
| <condition> | ::= | <variable> <relops> <number>  | <variable> <relops> <variable>  | <variable> <relops> <variable> <logops> <variable> <relops> <variable>  | <variable> <relops> <number> <logops> <variable> <relops> <number>  | <variable> <relops> <number> <logops> <variable> <relops> <variable>  | <variable> <relops> <variable> <logops> <variable> <relops> <number> |
| <iff> | ::= | if <openpar><condition><closepar> then <openbrace> <equation> <closebrace> else <openbrace> <equation> <closebrace>  | if <openpar><condition><closepar> then <openbrace> <equation> <closebrace> |
| <block> | ::= | <openbrace> <equation> <closebrace>  | <openbrace> <iff> <closebrace> |
| <funcname> | ::= | func <variable> |
| <funcbody> | ::= | <funcname><block> |