

P1 Lexical Definitions

- Case sensitive
- Each scanner error should display "SCANNER ERROR:" followed by details including the line number if counted
- Alphabet
 - all English letters (upper and lower), digits, plus the extra characters as seen below, plus WS
 - No other characters allowed and they should generate errors
- Identifiers
 - begin with a letter and
 - continue with any number of letters or digits
 - you may assume no identifier is longer than 8 characters (in testing)
- Keywords (reserved, suggested individual tokens)
 - `begin end loop void var return in out program iffy then let data`
- Operators and delimiters group (all single character except ==)
 - `= < > == : + - * / % . () , { } ; []`
- Integers
 - any sequence of decimal digits, no sign, no decimal point
 - you may assume no number longer than 8 characters (in testing)
- Comments start with `@` and end with `WithoutSpaces@`