

Additional Features for CODE Programming Language

Operations:

Compound-assignment operators:

syntax: <variable><operator><value>

- +=** adds the value to the variable
- =** subtracts the value to the variable
- *=** multiplies the value and the variable
- /=** divides the variable with the value
- %=** modulus the variable with the value

Postfix increment and decrement:

syntax: <variable/literal><operator>

- ++** adds 1 to the variable value
- subtracts 1 to the variable value

Character, string, and boolean comparison:

syntax: <variable/literal><_operator><variable/literal>

- ==** returns TRUE if both values are equal, otherwise FALSE
- <>** returns TRUE if both values are not equal, otherwise FALSE

Keywords:

STRING new data type that holds string literals

Within loops:

BREAK breaks the loop

CONTINUE skips the current loop iteration

Math functions:

PI	returns the floating point value of pi (up to 7 decimal places)
CEIL(<variable/literal>)	returns the smallest integer that is greater than or equal to the value
FLOOR(<variable/literal>)	returns the largest integer that is smaller than or equal to the value

Parsing and Type functions:

TYPE(<variable/literal>)	returns the data type of whatever is inside the parenthesis
TOSTRING(<variable/literal>)	converts the input to string, converts any data type to string
TOINT(<variable/literal>)	converts the input to int, valid conversions from: float, numerical string/char, char to ascii decimal number, e.g. TOINT('a') -> 97 in ASCII
TOFLOAT(<variable/literal>)	converts the input to float, valid conversions from: int, numerical string/char