expression - any line or Part of code that can compute a Value.

2.2=4→integer expression.

a>=4 > boolean (true of false) expression.

Basic data types (A) Hi" + 1 = "H:1" → String expression. a -> Variable as expression.

integers -> Char, int, long, etc, byte, Short 0000 0000

integers+ Floating Point = Floating Point. Floating > Float, double

textual > String Void -> No data

larger data type gives, usually, larger type in expression.

Statement-any line/part of code that Performs an action. Statements have to do something examples: if-stmt:

if (<boolean expression>) <statement> else <statement>

bracket-stmt { < statement(s) }

loop-states: runs statement until expression is false

do «statement > While (< boolean expression>);

While (<bool expr>) < Statement>

declaration Stmt:

<type-name> <variable name> = <expression that matches type-name>;

return StMT: exits the method back to where it was called.

Cetura < expression of the Method's type>;

if Method has a void return the => return;

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SWitch-Stmt:
                                                                                     Q
                                              No duPlicate cases
           Switch (<integer expressions) {
                                              Can have many cases as needed.
               Case <integer expression constant>: default case optional
                    <Statement(s)>i
                    break;
               default:
                    <statement(s)>
           Flow-Stmt:
           break & continue
            in loops, break completely ends a loop.
                    continue SKIPS an iteration, of the loop, and recheck loop boolean expression.
      For-StMT: Part OF LOOP FAMILY
       For (< Variable declaration or variable statement;
              < boolean Condition expression>;

< voriable expression>) <statement>
example For (Int i=0; i<10; i++) {"
             code
                                               "a" represents any variable name.
   Variable expression Statements
     0 = < value that's same type as Variable>;
             assignment statement
  variable
a already
exists
           if a is an integer or floating Point type
           0 = 0 + b \rightarrow 0 + b
```

Operators binary amodulo
+,-,*,/, Arithmetic
&, 1, ^,! Bitwise
&&, 11 Logical
<,>,<=,>=,==,!= Relational
a[integer expressio] array Index
a.b — Field accessor
a.bl.) __method calls
a.b.C(_) __method calls

$$10/3 = 3$$

 $10\%3 = 4 \rightarrow \text{closest multiple of 3 to } 10 \Rightarrow 9$
 $10-9=1$
 $13\%3 = \rightarrow 13-12=1$
 $9\%3 = 0$
 $6\%2 = 0$
 $20\%2 = 0$
 $16\%2 = 0$
 $0\%b = 0$ if a is a multiple of b.