Anushka Varde Mr. Jan Period 1 AP CSA

ReadMe

- Allowed Syntax
 - o Must have a semicolon at the end of each non-looping line
 - Understands int and String type
 - o No spaces between variable name, operation, and assigned value
 - \blacksquare Ex: int a=5;
 - int a = 5; is nott allowed
 - Ex: String str1;
 - Can use following mathematical operators for numbers and int variables
 - **+**, -, *, /, %
 - Can set variables to have different values
 - Ex: int a=6; int b=8; int c=a+b; b=b*5; c=20;
 - Must have a space between print statement and expected output
 - If printing statement, must use quotes
 - Ex: print "hello world";
 - If printing a variable, do not use quotes
 - Ex: print a;
 - If printing a mathematical expression, do not use quotes
 - Ex: print a*5;
 - If printing a new line, use command printNewLine;
 - To comment, place // at the beginning of the line
 - o To ask for user input, enter command: System.in
 - Ex: String h=system.in;
 - Can utilize if statements and while loops
 - Must enclose condition in parentheses
 - Condition can use any operation of ints or Strings
 - Can use >, <, == for ints
 - Can use .equals. for Strings
 - Open { bracket must be placed on same line as if statement declaration
 - Close } bracket must be alone on a new line

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• Ex:

if (a < b+1) {

print a;

}
```

- Can use nested loops
 - Ex:
 String h="hello";
 String k="hello";
 while (a>b) {
 print a;
 printNewLine;
 a=a-1;
 if (k.equals.h) {
 print "inside inner statement";
 printNewLine;
 }
 }
 }
- Types of Errors
 - o Detecting duplicate variable declarations
 - Ex: int a=4; int a=7;
 - → Will result in: "error: duplicate int variable a declared on line: 2"
 - o Detecting unknown variable
 - Ex: int a=4; print a1;
 - → Will result in: "error: unknown int variable a1"
 - o Detecting incorrect syntax
 - Ex:
 - boolean result;
 - → Will result in: "error: unknown code on line: 1"