

Sys...

 $(\text{"} - \quad - \quad // \quad / \quad - \text{"}) ;$

HW 1 by Wed. 9/5

```
int number;  
String name; //declare  
name = "Clif";  
System.out.print(name);
```

using Scanner for input

at top
1. import java.util.Scanner;

in main
(once) 2. Scanner in = new Scanner(
System.in);

3. int x = in.nextInt();
int y = in.nextInt();
⋮

```
String name;
```

```
name = in.next();  
    // letters up to next  
    // space, tab, new line
```

```
String fullName;
```

```
fullName = in.nextLine();  
    // up to new line
```

warning: don't mix
w/ next, nextInt

```
System.out.printf(  
    "My name is %s.\n",  
    name);
```

```
int sum;
```

```
int a = 5;
```

```
int b = 10;
```

```
int c = 4;
```

```
a = 3 + 4; // a is now 7
```

```
sum = a + b; // sum is 7
```

operations:
+, -, *, /
%

```
int q = 3 / 2;
```

```
// not an int
```

```
// 1.5
```

```
// q is now 1
```

```
int m = 3 % 2;
```

```
// mod: remainder after division
```

```
int f = a * b + c;
```

```
int g = a * (b + c);
```

Comparisons (Relational operators)

Java	algebra
<code>==</code>	$=$
<code>!=</code>	\neq
<code><</code>	$<$
<code>></code>	$>$
<code><=</code>	\leq
<code>>=</code>	\geq

if statement

```
if (condition) {  
    statement; //runs if the  
                //condition is true  
}
```

```
if (x < 0) {  
    System.out.println("Negative");  
}
```

```
if (number % 2 == 0) {  
    //print "Even"
```

```
}
```

```
if (number % 2 != 0) {  
    //odd
```

```
}
```