

HW 1 → Wednesday

## Input int (Scanner)

top 1. import java.util.Scanner

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

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

## String (type of data)

```
String name; // declare
name = "Clif"; // init
System.out.println(name);
System.out.printf("My name is %s.\n",
name);
```

input

```
String lastName = in.next();
// gets characters
// up to next: space,
// tab, new line.
```

Scanner  
↓

```
String fullName = in.nextLine();
// gets everything up to
// next new line
```

Warning: do not combine  
nextLine w/ next  
and nextInt.

Age?: 41 ↵  
nextInt

```
int sum=0;
int a=5;
int b=3;
int c=8;
```

---

+, -, \*, /

% - mod remainder  
after division

```
a = 4 + 6;
// a is now 10
```

```
a = 3 * 4;
sum = a + b;
// 15 is now in sum
```

```
c = 3 / 2;
// 1.5
// c is now 1
```

~~c = 3.5 / 1.5;~~

~~c = 0.5;~~

compile errors

```
b = 3 % 2;
// b is now 1
```

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

```
sum = ((a + b) + c);
// a + b + c
// a + (b + c)
```

# conditional statement

relational Java	operators algebra
==	=
!=	≠
<	<
>	>
<=	<=
>=	>=

if ( \_\_\_\_\_ ) {  
    ↳ condition  
    ↳ run these if the condition is true.  
}

}

---

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

```
if (number % 2 == 0) {  
    System.out.println("Even");  
}
```

```
}
```

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

```
}
```