

JAVA

Class 2

Agenda

String Class
String Concatenation
Arithmetic Operators in Java

String

String is a class present in java.lang package to represent group of characters enclosed within double quotes.

Example:

String schoolName="Syntax"; System.out.println(schoolName);

String Concatenation

Java string concatenation operator (+) is used to add/join/combine Strings to any value

```
1 package com.class1;
 3 public class Variables {
       public static void main(String[] args) {
           String name="John";
           String lastName="Smith";
           char grade='A';
           String city="Fairfax";
11
           String state="VA":
           int phoneNumber=1234567890;
13
           System.out.println("My name is "+name);
14
15
           System.out.println("My last name is "+lastName);
           System.out.println("My grade is "+grade);
           System.out.println("I live in city of "+city);
           System.out.println("I live in state of "+state);
18
19
           System.out.println("My phone number is "+phoneNumber);
20
```

console & cterminated> Variables [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/bin/java (Feb 16, 2019, 9:35:32 PM)

My name is John

My last name is Smith

My grade is A

I live in city of Fairfax

I live in state of VA

My phone number is 1234567890

Operators in Java

Assignment Operator

One of the most common operators that you'll encounter is the simple assignment operator "=".

```
int b=20;
String name="Syntax";
```

Operators in Java

Arithmetic Operators

Operator	Description		
+	For Addition		
-	For Subtraction		
*	For Multiplication		
/	For Division		
%	MOD - For Remainder		

Modulus Operators in Java

The modulus operator (%) returns the remainder of a division operation.

It can be applied to floating-point types as well as integer types.

```
1 package com.class1;
  3 public class Modulus {
          public static void main(String[] args) {
               int a=10;
               int b=3;
               int remainer=a%b;
10
               System.out.println(remainer);
11
12
13 }
□ Console 🎇
<terminated> Modulus [Java Application] /Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/bin/java
```

Compound Assignment /Shorthand Operators

- A shorthand operator is a shorter way to express something that is already available in the Java programming language
- Shorthand operations do not add any feature to the Java programming language

Operator	Name	Example	Equivalent
+=	Addition assignment	i+=5;	i=i+5
-=	Subtraction assignment	j-=10;	j=j-10;
=	Multiplication assignment	k=2;	k=k*2;
/=	Division assignment	x/=10;	x=x/10;
%=	Remainder assignment	a%=4;	a=a%4;