

PLEASE COMPLETE THE SOCRATIVE Pulse Survey

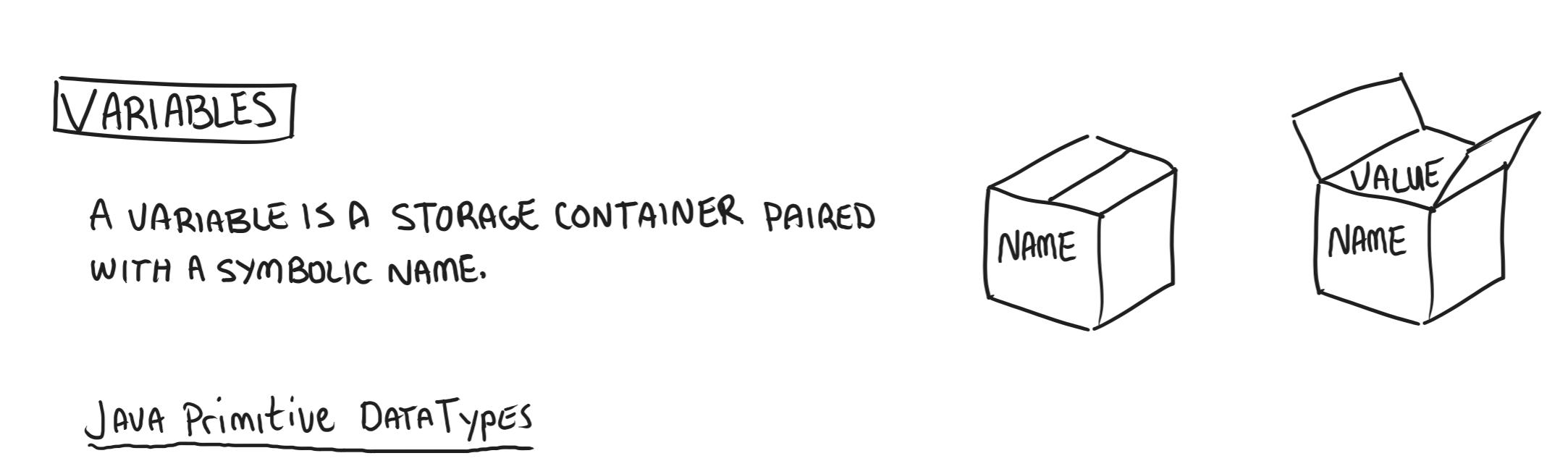
URL: gosocrative.com

ROOM NAME: JAVAGOLD

OBJECTIVES FOR TODAY

1. INTRODUCTION TO JAVA
2. VARIABLES
3. ARITHMETIC OPERATORS
4. DATA TYPE CONVERSION

INTRODUCTION TO JAVA



package com.techelevator

```
public class HelloWorld {
```

```
    public static void main(String[] args){
```

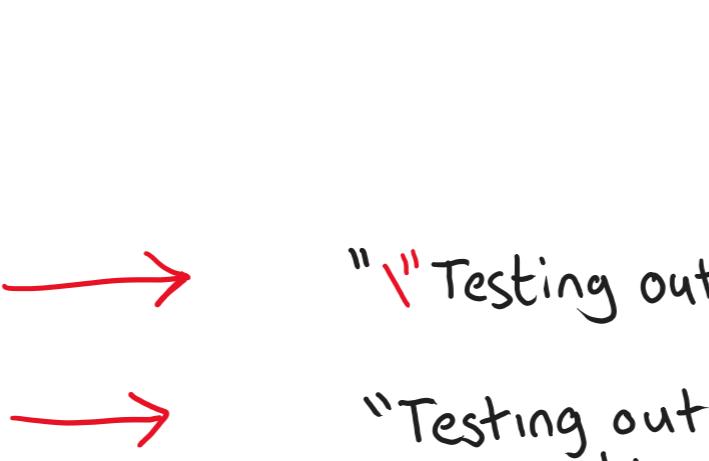
```
        // Prints out Hello World
```

```
        System.out.println("Hello World");
```

```
}
```

VARIABLES

A VARIABLE IS A STORAGE CONTAINER PAIRED WITH A SYMBOLIC NAME.



JAVA Primitive DATA TYPES

DATA TYPE	SIZE(BYTES)	USAGE	Example
byte	1	whole numbers -128 to 127	42
char	2	Unicode Characters, one letter/number/symbol	'A','7'
boolean	1	True / False	True
short	2	whole numbers -32,768 to 32,767	5,413
int	4	whole numbers +/- 2,147,483,647	-44,721
float	4	Floating point number with a precision of 7 digits	3.14
double	8	Floating point number with a precision of 15 digits	3.141592653
long	8	big whole numbers +/- 9,223,372,036,854,775,807	52,675,034,43

CREATING A VARIABLE

Created in two parts:

1. Declaration - defines the DataType and Name → int numberOfStudents;

2. Assignment - sets a value → numberOfStudents = 20;

Can also be created in one line: → int numberOfStudents = 20;

STRING DATA TYPE

- Holds Characters

- Can be assigned with a literal string in quotes

```
String name = "John Smith";
```

• DataType name is capitalized → String,
• Can contain characters like 'new line', 'tab', and double quotes which must be escaped with a backslash like the following:

- \n → new line
- \t → tab
- \" → double quote

Example: String written in java: → "Testing out a String!"

Prints as:

→ "Testing out a String!"

→ - John Smith

→ "Testing out a String!"

→ - John Smith

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