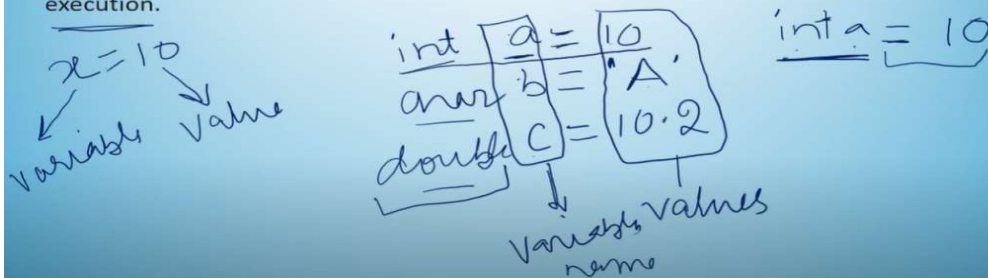


Session-2 Datatypes, variables & Operators

Thursday, July 7, 2022 3:49 PM

Variables

Variable in Java is a data container that stores the data values during Java program execution.



Data types

1. Primitive Data Types :- There are **8** primitive types, which include integer, float/decimal, boolean, and character.

S.no	Type	Data type	Size (Bytes)
1	Integer type	byte	1
2		short	2
3		int	4
4		long	8
5	Decimal/float type	float	4
6		double	8
7	Logical (true/false)	boolean	1
8	Textual type/character	char	2

2. Non-primitive/Derived Data Types :- which include classes, **String**, arrays and interfaces.

Operators

Operator is a **symbol** that is used to **perform operations**.

1. Arithmetic Operators (+, -, *, /, %, ++ and --)
2. Relational Operators (==, !=, >, <, >= and <=)
3. Assignment Operators (=)
4. Logical Operators (&&, ||, !)
5. Conditional operator (?:)

Logical Operators (&&, ||, !)

Logical operators Works for boolean value

X	Y	X&&Y	X Y	!X	!Y
TRUE	FALSE	FALSE	TRUE	FALSE	TRUE
FALSE	TRUE	FALSE	TRUE	TRUE	FALSE
FALSE	FALSE	FALSE	FALSE	TRUE	TRUE
TRUE	TRUE	TRUE	TRUE	FALSE	FALSE

```
50 //variable = (condition) ? expression1 : expression2
51
52 a=9;
53 b=5;
54 int minimum = a<b?a:b;
55 System.out.println(minimum);
56
57
58
59
60 }
61
62
```