java-version. suhether java is installed or not JRE Dill Learn Jans Los compiles / Sinterprel

Env. varieble to configure javal > Edit System Env. Variable. - Specific user

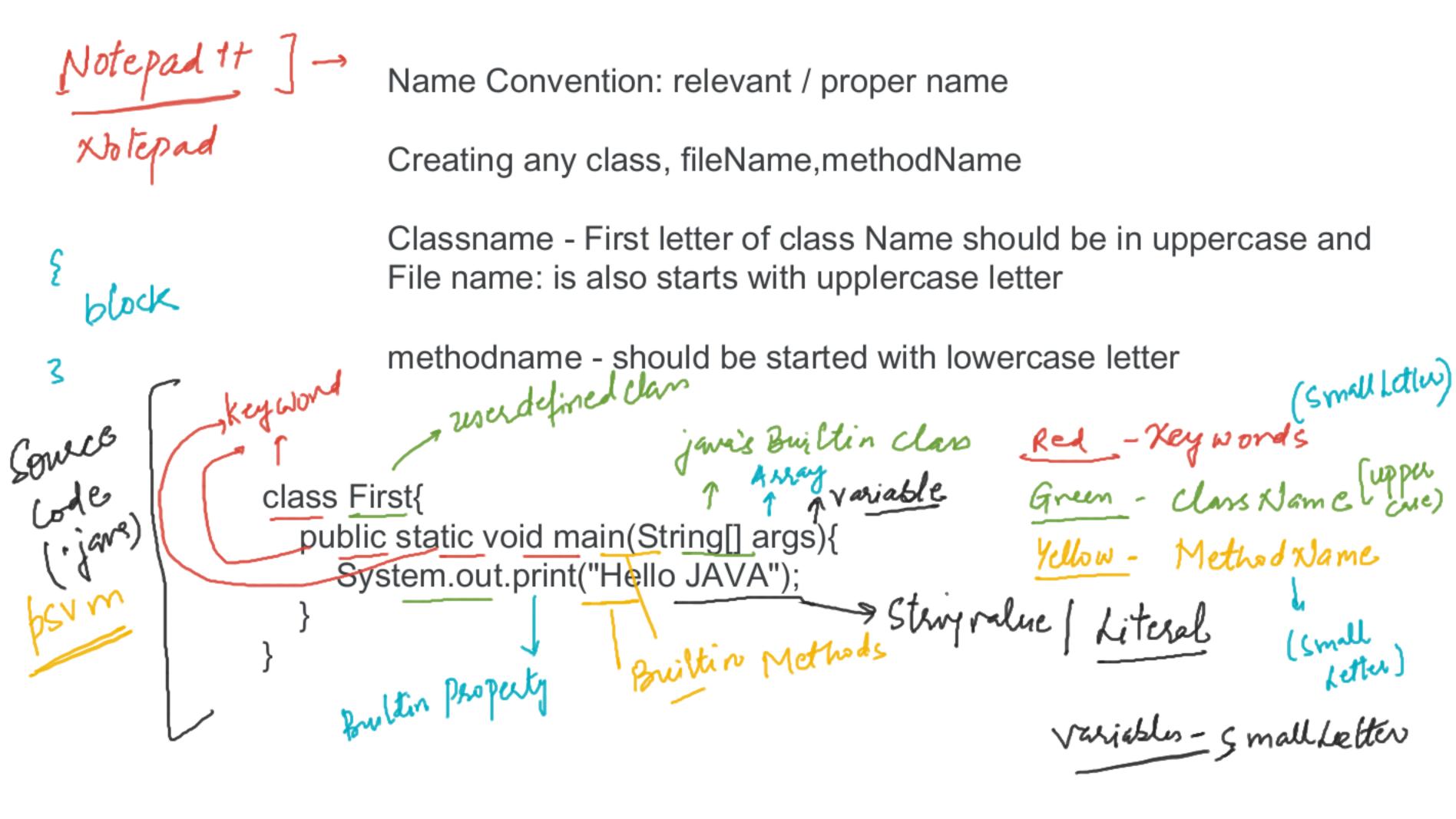
- Env. Variables < system - for Auth Cydenoliseus. spath - Edit - NEW - paste the path of JOK folder

-> / jarac 1-8

C:\Program Files\Java\jdk1.8.0_271\bin

-> OK-> OK-> OK

s Open New and and Run command javac'-versions



(i) Claus Name and FileName is different - Yes, it compiles excursely.

(ii) claus Name & Filename is Same > Ves, "

(III) (If we write 'pushic' keyword infront of class, incase class Name and fileName is diff. -> Error atrompile-lime.

De need to keep the fike & class Name Same, if we are using forthekeyword

Program Extecution Flow

> Test jarg 1. Souce Code compile = [javac Testijava], filename Byte Code -> First · class 2. Executed Interpret the Byte Code -> JVM executes it JVM darts the execution from main () method public class Test{ -- Creating a class - main nothed from when JVM public static void main(String[] args){ System.out.print("Hello JAVA"); starts the execution To print the statement

int a = LO increment a++://13 a^{+} Cyco (a); 11 11 a-- ipre ++ a; 11 +1=12 increned a++ 13 Sylo (a);// Syco (a);

int x = L; 7/12/ Syso (Xtt); 2) Post - 2 Arthon increment Action I Frut velue Syso (x); -(2)

ent y = 2; y++; 113 ++y, 1/4 Cyso (y ++) ;1/4 + + y 6 / Sylo (4), 116

MIME 234

ne-Increment int a= 2;

Ex pre postincement. 1314 int X = 10; int x=10; enty = x, X++; 11 11 Naviable Syston ++x;1112 v Syso (xt+);//12 int x, int y declaration Syss (++x); 1114 enil -> Syss (x); 11/4

(11) assign the value of fore-post increment en a veriable. int x=10;

int y=[x++i]

Assignment operator

Assignment operator Assignment apro? Syso(x);/1 Int y = x t + 1 - 71 - value

10 2 | - 71 - value

increase Syso(2);1/ -s opl - value assign - y=10 > 0/2 -> Value increment

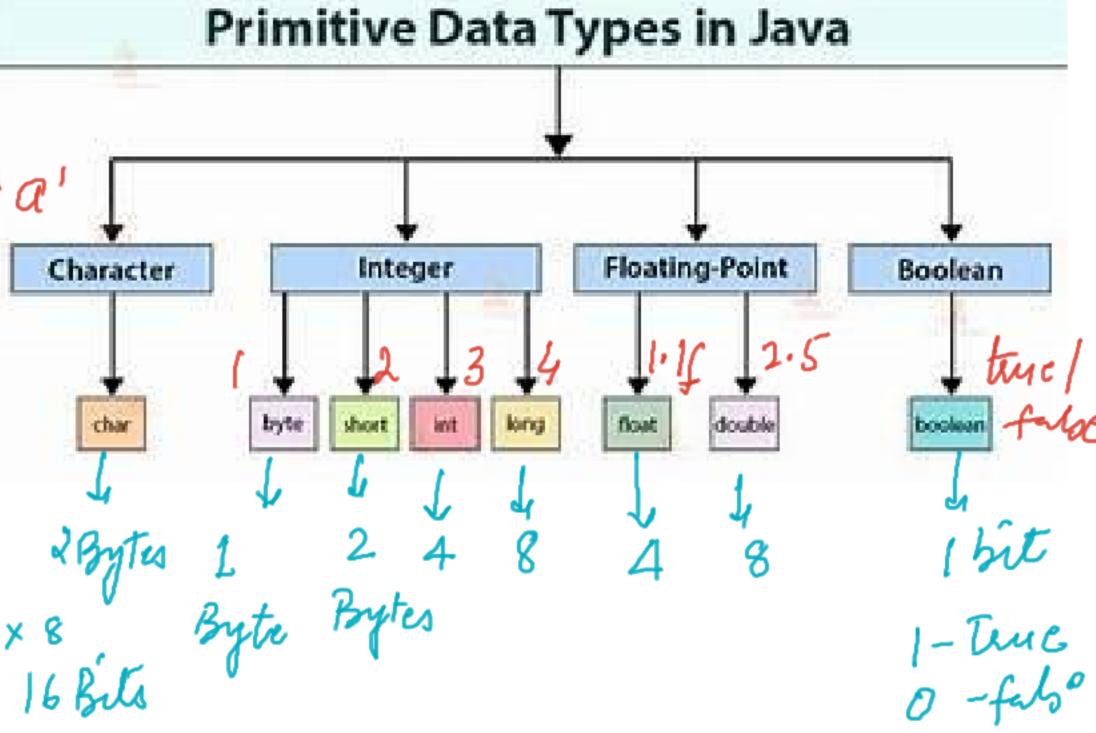
Data Types - Primitive DT

Non primitive DT

Hhat can Store a single value in a variable (interpreter) That can hold multiplevelues in a Variable. 1 Byte - 8 bits 1 Bût -> (1)0 / 0

-sprimiture DT byte short int long float boolean → true, false char → single cher

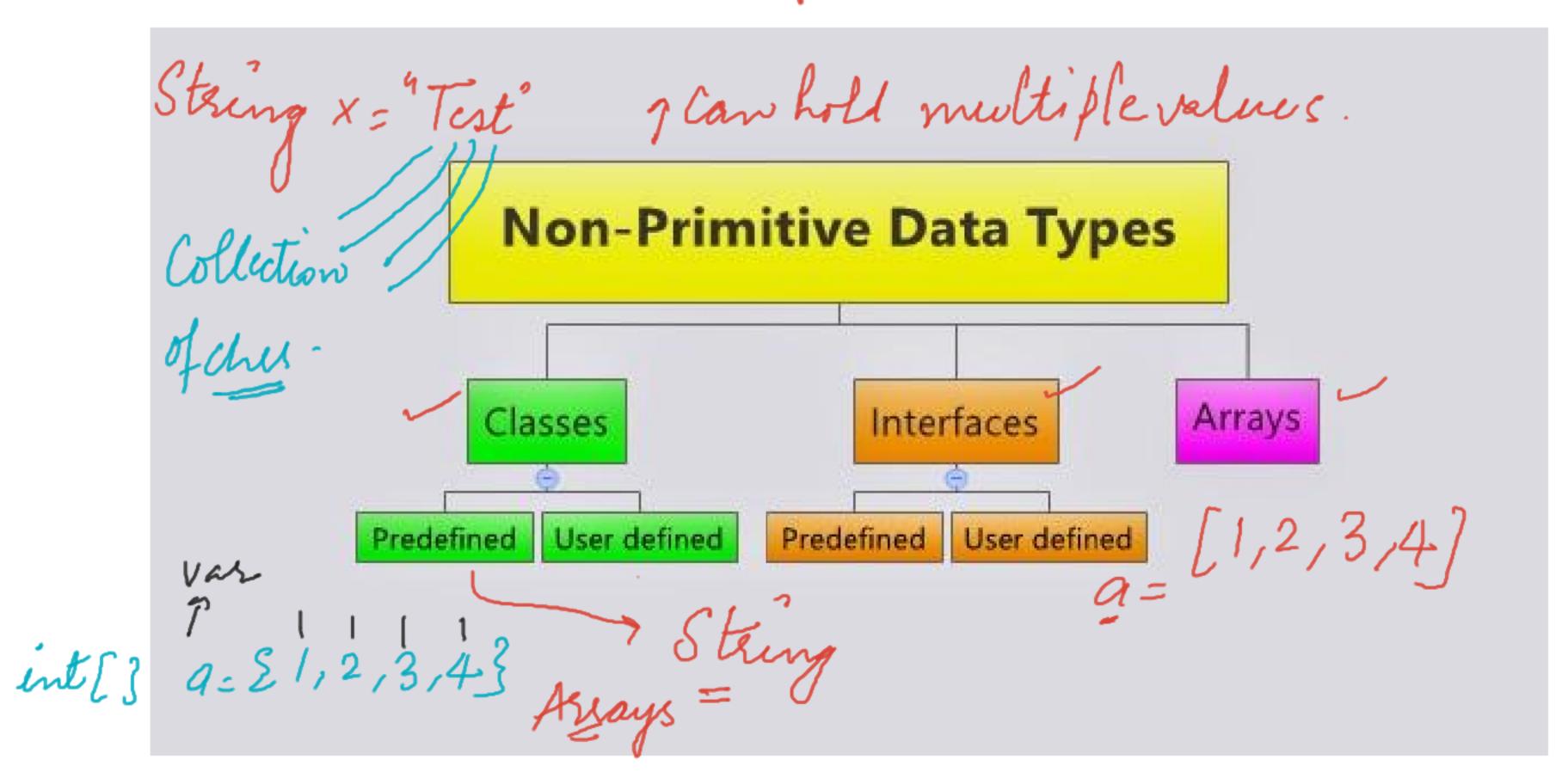
Binary dans 128 64 32 66 8 42 1 2 -> 00 0 0 3 -> 00 0 0



Primitive Data Types - Summary

| Data Type | Keyword | Size(bit) | Size(byte) | Min | Max |
|-----------|---------|-----------|------------|----------|----------|
| character | char | 16 | 2 | 0 | 65535 |
| byte | byte | 8 LBy | te 1 | -128 | 127 |
| short | short | 16 | 2 | -32768 | 32767 |
| √ integer | int | 32 | 4 | -2e31 | -2e31-1 |
| float | float | 32 | 4 X 8 | 1.4e-45 | 3.4e+38 |
| long | long | 64 | 8 X 8 | -2e63 | -2e63-1 |
| double | double | 64 | 8 | 4.9e-324 | 1.8e+308 |
| boolean | boolean | NA | NA | false | true |

(II) Non-Beimetiere Data Type:

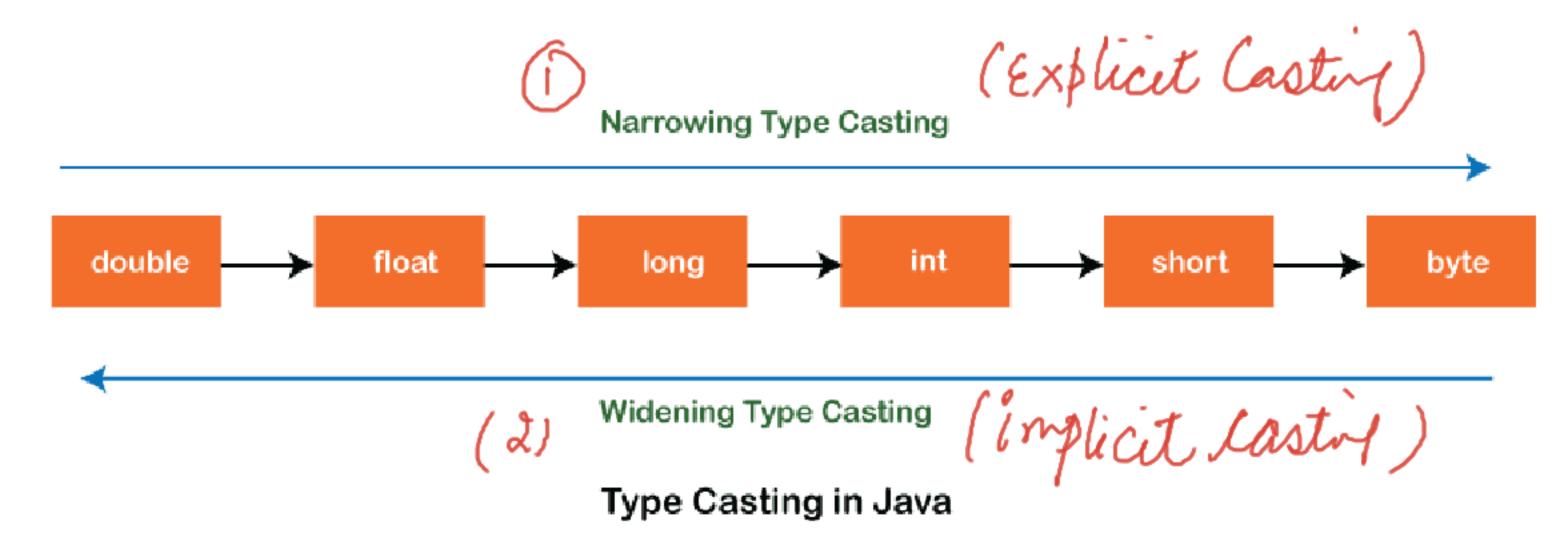


Type Casting?

Star Cast

Conversion/ storing the value of one datatype into another datatype.

-> Role



Automatic Type Conversion (Widening - implicit)

