

Introduction:

Compilation: javac <file name > java Execution = javac < class name > [. class]

Java Source Javac Bytecode java Execution (java) JOK (class) JRE

x Public Classes regrire same name of file as class.

X Auto type narrowing only allowed in declaration + definition of

main():

Signature: public static void main (String [] args) {

public For global visibility across environment static For no binding to class objects, allows for invocation

without instance creation

(Stutic: Belongs to class, shared across all instances)
void: No return type

Sonny []: For command line arguments.

Accessing static members —:

1) Through Class identifier -2) Through Object identifier.

3) Direct through dentifier in static context of same class.

4) Through static reference.



byte & short to int in eps. max type of operands in ops,

Type Conversion & Casting -: 1) Automatic (Widening) Conversion -: Prerequisites: x Compatible types (primitive <> primitive)

× Destination type larger than source. (Larger Range of type) Widening flow: Byte & Short < Char < Int < Long < Float < Double Caveat: x No. automatic conversion from numeric or char to boolean × Automatic conversion (narrowing) of integer literals into variables of other numeric types during declaration & initialization. (type promotion during operations to int) × Type promotion: float to double in operations

For overflow in operations port type promotion, explicit type casting is regirred for narrowing.

Numeric Narrowing to Numeric — value mod (range (type))

Numeric Narrowing from Real — Integral component Huncation X

Type conversion (narrowing) port type promotion only applicable to literals & operatods of lower types.