

④ [Naming Conventions and data types]

naming Conventions:- Rules to be followed by a Java Programmer while writing names of Packages, Classes and methods.

① Packages:- represents a sub directory that contain group of class and interface.

- always written in small letters as
 - java.awt
 - java.io
 - java.swing

② Class:- it is the model for creating an object. It specifies the Properties and actions of objects. (also interface too)

- Start with Capital letter
 - String
 - DataInputStream
 - ActionListener

③ method:- First word is small letter then from next word Capital letter as,

- println()
 - readLine()
 - getNumberInstance()
- (also same for variable too)

④ Keyword should always be in small letter
as → Public
void
static

☆

① Integer data types:- used to represent any integer no.

① byte \rightarrow 1 byte \rightarrow -128 to 127

② Short \rightarrow 2 byte \rightarrow -32,768 to 32,767

(iii) int \rightarrow 4 byte \rightarrow -2147483648 to 2147483647

(iv) long \rightarrow 8 byte \rightarrow -9223372036854775808 to,

② Float data type :- used to represent ^{exp} numbers using decimal point.

Obsolet \rightarrow 4 byte (7 digit accuracy after decimal point)

(ii) Doble → 8 byte (15 digit) " " " "

floor $P_1 = 3.142$ F

(here F is used as JVM would allot 8 byte assuming it to be a double) (default value is taken as double 80).

iii) Character data type + Single character representation.

Char \rightarrow 2 byte (0 to 65535)

Why 2 byte?

⇒ as JavaScript People want to use any character not only English but all other human language, it will be advantage on internet.

Unicode?

⇒ ~~System uses~~ an encoding standard that provide a unique no for every character, no matter what the Platform, Program, or language uses 2 byte.

④ String data type :- represent a group of character.

eg → `String str = "new delhi";`

⑤ String is a class, why it is taken as Data type?

→ Every class is a data-type and is called as user-defined data-type.

⑥ Boolean data-type :- represent two value - either true or false (uses 1 bit)

eg → `boolean response = true;`

⑦ Literals :- value that is stored into a variable directly in the program.

eg → `int num = 10;`
data type variable literal