

1).

Statically Typed Language – Every variable and every expression has a type that is known at compile time.

Dynamically Typed Language – These languages do not require any pre-defined data type for any variable as it is interpreted at runtime by the machine itself.

Strongly Typed Language– These languages should be declaration of every variable with a data type.

Loosely typed Language- These languages do not require declaration of variable with a data type.

Java is Statically typed, Dynamically typed and strongly typed language.

2).

Case Sensitive – The language can differentiate upper case and lower case is case sensitive language.

Eg:-Person – it should be class name
person – it should be variable name

Case insensitive – The language ignores the difference between the upper case and lower case.

Eg:-myPerson, myperson both names represent same identifiers.

Case Sensitive-Insensitive – The language considers both ways of case sensitive and case insensitive.

Java is the case sensitive programming language.

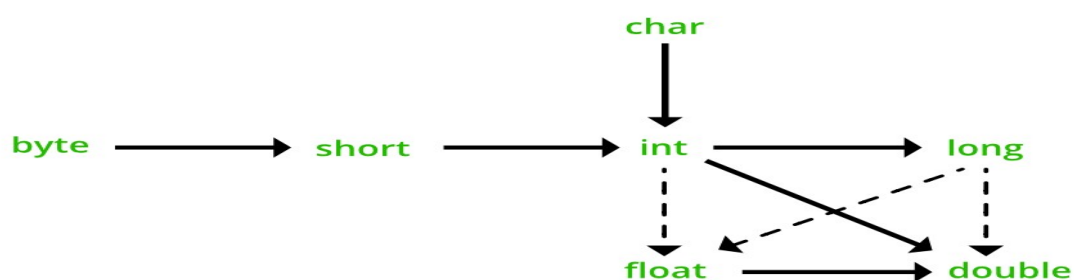
3).

Identity Conversion – A conversion from a type to that same is permitted for any type.

Eg:- int myInt1 = 30;
int myInt2 ;
myInt1 = myInt2;

4).

Primitive widening conversion -



-These concept says smaller capacity data type can convert to larger type.

-Double data type longer than int data type but double can convert to int data type because of double variable data filling structure differ to integer type . Therefore can be convert to integer data type to floating point data type.

5).

Compile time constant- Identify the constant when it compile time.

Eg:- `int myInt1 = 50;`

Run time constant – when identify the constant when it run time.

Eg:- `int myInt1 = cal(5);`

6).

Implicit (Automatic) Narrowing Primitive Conversions - this conversion occur to large size of data type convert to small size date type for following condition.

- 1) Assign value should be constant
- 2) this occur only byte,short,int,char datatype only.

Explicit (Automatic) Narrowing Primitive Conversions- this conversion occur to large size of data type convert to small size date type for following condition.

- 1) Assign value should be constant
- 2) large size data type value should be keep small size data type.
- 3) This conversion data loss can be occur.