Looping :

1. While loop

Initialization

while(condition) {

do some task

increment or decrement

}

1. Do while loop
2. For loop
3. For each loop or enhanced loop.

Generally for each loop we use with array or collection of classes.

Reference data types or non primitive data types

It is use to store value as well as reference of another data types.

4 types.

1. array
2. class
3. interface
4. enum

array : array is use to store more than one value of same types. In java array is known as fixed in memory size.

Array declaration

datatype arrayName[];

int abc[]; declaration

float xyz[];

array declaration with initialization

int abc[]={10,20,30,40,50,60}; declaration with initialization

memory creation for array in java

int xyz[]=new int[10]; xyz is a type of int array which can hold 10 number of type int.

array variable value start with index with 0.

Default value for array variable

int family 🡪0

float family 0.0

char 🡪 space character

boolean 🡪 false

retrieve element using for each or enhanced loop

syntax

for(datatype variableName : arrayName) {

}

Type casting : converting from one data type to another data type is known as type casting.

2 types

1. implicit type casting
2. explicit type casting

int family

---------------🡪 implicit type -----------------------🡪

byte short int long

🡨-------------- explicit type --------------------------------

byte a=10;

short b=a; // implicit type casting

short c = 10;

byte d = c; Error

byte d = (byte)c; // explicit type casting

int to float

--------implicit ----🡪

int float

🡨--- explicit ---------------

By default any decimal number in java double consider.