= Example (1)

Parameter Passing Techniques in Java

- laurmeters refer to the list of rangelles of in a method declaration.
- -> (Arguments are the actual values that are passed in when the method is invoked. When we invoke a method, the auguments used must, match the declaration's parameters in type & order.
- We can use any data type for a parameter of a method including int, float, double, boolean, char (primitives types) and reference data types such as object & arreys, Strings.

public class Demof

static void update Variable (int a) of

public static void main (String [] ays) { int num = 5;

Update variable (num);

System. out- println (num);

Now in above example if we worter—

byblic class Demo f

int nom is

slatic void upolate Variable (Demo ol) of here as we now object properties

ple ?

ol. num = 10:

enumple ?) 3).

m , Demo d = hew Demo();

d. num = 5; updetermable (d); sop(d.num), 3

(2)
In first enample we were passing primitive type (integer)
and in second we were passing object reference.
There are basically 2 techniques to pass parameters:
[Passby Value (Call by Value) 2 (Both are ally
D Pass by Reference (call by Reference) Technically fass by Reference (call by Reference) only Pass-by
NOTE: - Java uses Pass by Value
How a simple variable of primitive type stored in memory; - int a = 5; Memory
int a =5;
at runtime we have only
at runtime we have only memory a dolorers & the data (value) a > 5412.
Have an electrical transfer and the second
How an object reference represented in memory:
Demo d = new Demo(); Memory
the address of where the sure 5
the address of where the S412 S
actual value is stored.
Paris solver
It means when we pass a variable to a method, Java Passes a
It means when we pass a variable to a method, Java lasses a
copy of the variable's value to the method.
- Pass-by Value for Primitives: - (Int, float, double etc.)
Ly copy of actual value is to be passed. Hence any
charge made to the parameter incide the method
do not affect the outline of variable outlide the
Charge made to the parameter inside the method do not affect the original variable outside the method.

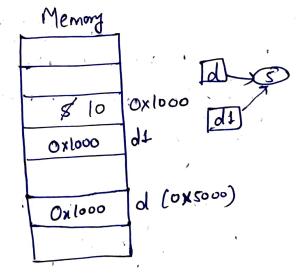
It may appear like pass-by-reference but its stell Pass-by-value because Java is copying the reference value (i.e. the address of the

object)

Lets illustrate example 2.

Here both the object points to same memory location oxlow Hence it will affect the original object state. Here both of & old referency to

the same Demo Demo



example 3 : -

public class Demo f Demo d1 static void upolate Variable (inta) {

newobject is crested & d1 now references it

d1. num = 10; d1 = new Demo (); // Reasignment d1. nom = 20;

(Pt only affects the local) object reference

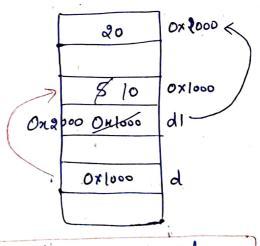
public static void main (String [] ays) [Demo d = new Demo(); d. hom = 5; Updatevariable (d); System out println (d. num),

Output: - 10

IMP NOTE . Sometimes we call pass by reluc for Object References as Pars

by Reference But it is Pars-by,

value only



So technically in Java there is no tone Pais-by. Reference.
There is only Pass-by- Value always,

