## -! Argument Passing in Java! -

- In Jewa, whenever we will pass argument to a method we can only pass two things
- (i) passing variable/value.
- (ii) Pass Réforence (Amoy Réforence, object Référence)

Passing Variable:

- Java will always pass the value.
- (11) This Value is other Received by formal argument declared in the Methods argument 161.
- the same value but both have different address.
- (iv) so if we make any changes in the formal argument, it is not going to effect the actual
  - by very Pass by value

```
Class Pemo
 2
    Public State void increment (int i, int ])
         Jet; 3- bocal memerser
      3
class UseDemo
    Rublic void Static main (String [] args)
        Deno obj = her Deno ();
         int i= 10 1,
        int J= 20;
        Obj. increment (1,7);
        Sout (° 1", "+ 1); -> 10, 20.
```

29 lect.

- is Whenever we pass any Reference as argument to a Method
  then Java passes the address of object or Array
  pointed by that Reference
- (i). This address is then received by a formal Reference declared in the Methods areg list.
- (iii) so now, both, the actual and formal are pointing to the same object.
- (value of data member of the object) via formal suference then this change will be sufferted in original object.
- cu And this miget give us an impression that it is pass by suference.
- in the domail reference (ex. making the domain reference point to a new object) then it will have no effect on the original object or the actual reference passed as argument.
  - (vii) Thus we can say that in Java even sufcrence are passes

```
Passing object Refounce!
Class Data
   private int a, b;
   Public void Setdata (int i, int ])
       9-11
        b = J;
   public void Showdata ()
      Sout ("a="+a+", b="+b);
    public void increment (Date P)
       P. a = P. a+1;
       P.b = P.b+1!
```

Class Usedata

2

Public Static void main (String [] avegs)

Z

Data D = new Data ();

D. Set-data (10, 20);

Sout ( " Before increment ");

D. Showdatal);

Data temp = new Data U;

temp. increment (D);

Sout ("After increment");

D. Showdala ();

3

Output

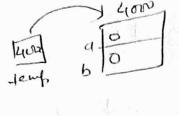
Before incrementing

a= 10, b= 20

After Inciementing

9=11, 5=21.

25°0 1 0 10 D b 20



2500)

```
甘
```

```
Class Date
  Private int a, b;
  Public void seldata ("int i, "ht ])
     a=1;
   b-J;
  Public void Snowdata ()
   Sout ("a="+a+", b="+b);
   Public vold increment (Data P)
        P = New Duta ()
        Pa=Pa+L;
       P.b = P.b+1;
```

```
Class Usedata
 Public Static void main (String [] augs)
    Data D = new Data();
    D. Setdata (10, 20);
   Sout (" Before increment")
  D. Showdata ();
  Data temp = new Data ();
  temp. increment (D);
  Sout (" After increment");
   D. Show Data():
                                 P= new Dada ()
 output
Before increment
9=10, 6= 20
After increment
9=10, 6=20
```

```
(Passing Array as Argument
Syntap.
     Laccess Mod > 2 return type> < Method name> (<dode type>[]
                                              Laurayreference);
  public void doubler (int [] brr)
       for (int i=0; iz brr. length; itt)
         bor[i] = bor[i] * 2
   PSUM
      ¿ { 07,04,62,05,01} = no [] tri
```

```
Sout (" Before doubling");
   for (int x: aux)
      Sout (x);
  Demo obj = new Domo();
   Obj. double (arr);
   Sout (" After doubling ");
   for (int x : an)
     Sout (x);
Output
before doubling
20
 30
 40
 50
After doubling
 40
 60
 80
 100.
```