Dewnal to Any Bose

```
public static void decimalToAnyBase(int n, int b) {
   int ans = 0;
   int places = 1; // 10 ^ 0

   while (n > 0) {
    int rem = n % b;
        n = n // b)
        ans = ans + rem * places;
        places *= 10;
   }
   System.out.println(ans);
}
```

```
m=108
  0410, + 3×10, + 5×10, + 1×10
                      0 + 30 + 200 + 1000
                           1230
```

bone - deavind bose -> base ~ n = 798 6, - 10 62 = 8  $[198)_{18} \longrightarrow [1436]_{8}$  [1436]<sub>8</sub> -> ( 

Any bone -> Any bone

why -> + /

- - apratos works for deciral

X

6, -> 62

b, -> C 710

Steps  $\begin{bmatrix} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$ 

Sty 2

Any box addition

n = 10

6 - 10

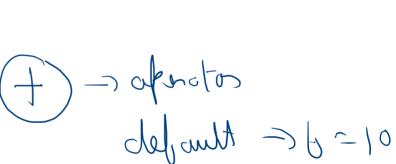
am - n, (t) mz = lo + 5=15 5

6-10



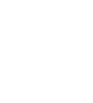


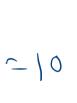
















ma = 6 78 X Ditism 00 7 0 demil blant pos = 10 74+1 75 +1 76 41

$$m_1 = (12)_8$$

$$m_2 = (16)_8$$

$$b = 8$$

$$m_3 = (16)_8$$

$$m_4 = (16)_8$$

$$m_5 = (16)_8$$

 $m_1, m_2, 6$   $Stabl \Rightarrow m_1 \longrightarrow [m_1]_{10}$   $Stabl \Rightarrow m_1 \longrightarrow [m_2]_{10} = [m]_{10}$   $Stable \Rightarrow m_1 \longrightarrow [m]_{10} = [m]_{10}$ 

```
public static int anyBaseAddition(int n1, int n2, int b) {
   int decimalEqN1 = anyBaseToDecimal(n1, b);
   int decimalEqN2 = anyBaseToDecimal(n2, b);
   int decimalEqAns = decimalEqN1 + decimalEqN2;
   int ans = decimalToAnyBase(decimalEqAns, b);
   return ans:
```

Draw -> Proved Comtinues in memory -> Collection of 5 miles dotated Won- Promition

Synton =) int array = ) int [] are = new int [5ize]

Promitive variable Primitw String array >> String [ ] Steffer = new String [ DIS] Varible Non Promitiv Sizo=6 inde= 0 Represent -> 10 11 12 13 14 15 mder = Positions -1 array -> collection als Similar dita type & It is continuous in rumany

idno = 0 1 2 3 4 5

arr = 10 11 12 13 14 15

integer -> dotatyll is Similar

X [0 1-12 "Estm"] mot collect of Smiles defoty

wrong - Continous in Memory ind [) was = plus ind [6] sty LMS

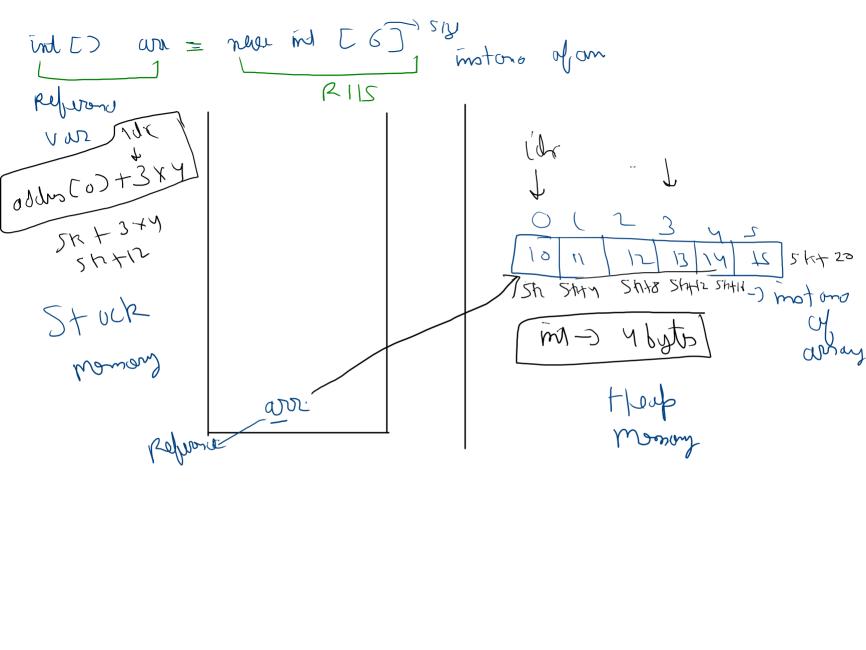
Keyword => new -> Represents non

Promitiv -> you are diading

vos délissor voulère c ma CD fui c SHJ

RHS => new ind [6] -> motons of array

to all a at monony



```
public static void intArr() {
   int[] arr = new int[6];
   arr[0] = 10;
   arr[1] = 20;
   arr[2] = 30;
   arr[3] = 40;
   arr[4] = 50;
  int val = arr[0];
                                    0
                                                             30
                                                                                    ں 2
                                              20
                                                                       40
                                                                                              60
```

10 = 10

50 10,

Dow don't how gartoge value Granbuge Collector > Javo Fil Clear your unused Refault an all -0 ma = 0 - defaut