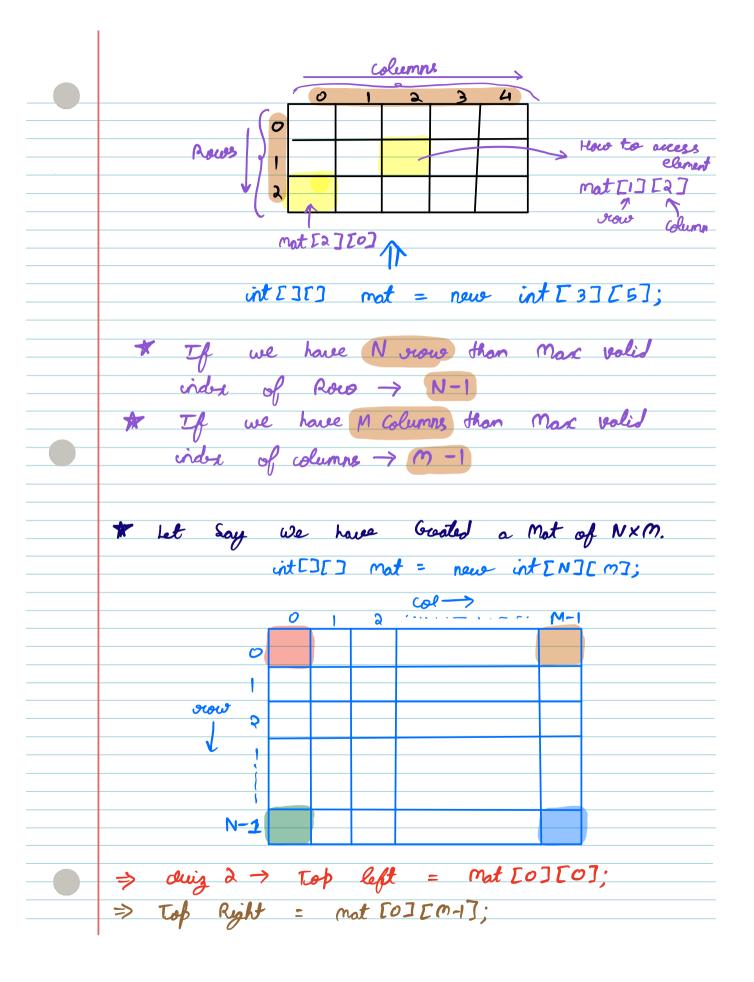
## ) Arrays

Sequential Collection of Limitar doto => Real life Examples:-TIC TAC TOE LED Screen other Examples: - Theatre, Bus & chess the > SYNTAX OF 2D ARRAY:int [][] are = new int [ rows] [ columns]; Ex:- vit[][] aux: new vint [3][5]; > How Many Total elements = 2000 × Col;



```
> Bottom Right = mat [N-1] [M-1];
      Guven a Matrix of Size N×M, Print its
                     2 ····- · · ~ · ·
    NOW
       N-1
OBSERVATION: - 1) We want to towel in first Ran
                        > Indexes: - mot[0][0], Mot[0][1],
                           mt [0][2] ... mat [0][m-1]
                   (2) Row Same & Col Changing.
PSEUDO CODE
              Void print Row ( int [II] mat) &
                    int no Of Rows = mot. length; int no Of Columns = mot [0]. length;
                    int Row = 0;
                    for ( int col=0; col 1 no Of Columns; colt)
                         SOP ( mat [ Row][col]);
```

> Bottom Left = mat [N-1] [0];

02 Given a N×M motrex, Print it leftmost col-M-I row N-1 OBSERVATION: - 1) We need to toward over first Induces > (0,0) (1,0) (2,0) ..... (N-1,0) how changing Column Samo. PSEUDO CODE :-Void Point Column (int[][] aver) & int col = 0; int Row = arr. length; for (i=0; i < Row; i++) { SOPC aux [i][col]; 3

83 Given a Matrix by now. of NXM, Print it row Ex:-40 50 30 20 > Mat [3][5] 20 0/0: 10 20 40 30 3 9 OBSERVATION: - (1) We are travelling in a row 2 col is changing. once how is towelled change the No. Blong with changing lero Row PSEUDO CODE Print Row by Row (int[][] mat) & Void int Row = mat. length; int col = Mat[0]. length; for ( i = 0; i < Rous; i++) \$ for ( j=0; j'< col; j'++) { Perint ( Matrissij]+"");

	OS4 Guise		en	a	Matrix		L	N×M,		Print		it	Col	by
						0	1	2	3	ч				
			Ex:	-	0	( 0	રે છ	30	40	50				
					1	1	2	3	ч	5				
						6	7	8	9	۱o				
					2	U	7		,	, -				
			0/4	2:-		10	1		6					
						20	, 2	5	7					
						30	3	8	?					
	, and the second													
						C								
						Şo	9		0					
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	089					. (1)	Col	ر'ده ر	ge the	ng	Es.	col .	2	Rou
	065		A T J		DE	. ()	Col	'us (	gette ging	В	معور (	eod	2	Roi
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	000				DE	· (1)	Col	change of (	gette ging int c	ב בשב	or (	eod	2	Roi
	069				DE	· (1)	Col is	change of (	gette ging int c	Gi 2E2 length	ove (	eod	2	Roc
	065				DE	· (1)	Col  is  Print Colty  int re	change of (  coust  dumns:  j=0;  d	ging int C over. over. over.	Gength  length  i. length	avr) : oth;	s	2	Row
	065				DE	· (1)	Col  is  Print Colty  int re	change of (  ows:  dumps:  for (	gette  ging  int [  over [  over [  col  c= 0;	length  i < Ro	over)  : oth; : w; c+	+){	2	Row
	065				DE	· (1)	Col  int on  int on  for (	change of cours = olumns = o; defor c	ging int C over. over. over.	length  i < Ro	over)  : oth; : w; c+	+){	8	Row
	000				DE	· (1)	Col  is  out of  iv of	change of (  cows = country = co; defor countr	ging int [  over.  over.  over.  col  c= 0;  Print (	length  i < Ro	over)  : oth; : w; c+	+){	8	Row
	000				DE	· (1)	Col  is  out of  iv of	change of cours = olumns = o; defor c	ging int [  over.  over.  over.  col  c= 0;  Print (	length  i < Ro	over)  : oth; : w; c+	+){	2	Roc

PSEUDO CODE
 Void Point Colly Col (int [][] avr) &
int rows = over, length;
ist Columns: arr [0]. length;
for (j=0; j < col; j++) \$
for $C := 0$ ; $i < Row; i++)$
Print ( over [i][j]+"");
3
Brintln();
3

