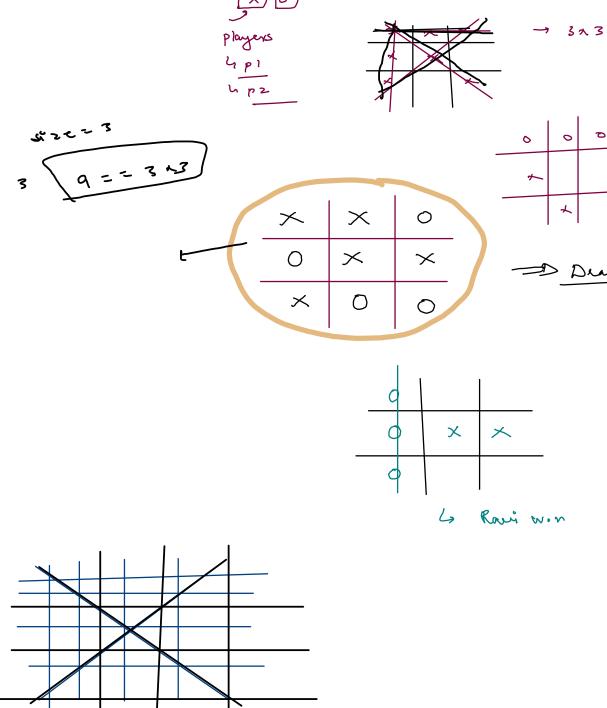
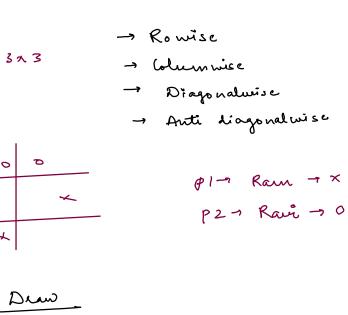
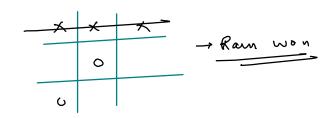
PROJECT - 01

TIC TAC TOE









Lo Design Tic Tac Toe

Le Requiremente - 1 board - define - size & board (nxn)

-> 2 Players (A, B)

-> Rules

b of any now, column, diagonal, autidiagonal

is filled with some symbol

chancisered as winner

-> Outcomes

Le Player 1 -> winner

La player 2 a winner

Lo Duam

3 ×3 4 × 4 5 + 5

X/X/X X/X/X

(5 mins) Board Board class ut size - user point Board Config Player

> player dass

(5-6) <u>mins</u>

1 name of the player

4 (2) age ---

43 address of the player

45 player wordart number

53 player emål "I

-10 & byer significant

(constructor)

Co pretting the perspecties of a player

2 set > neure, eymbol, condact, email id 20 set > hame, eymbol Ravi 23 UP ~ —

r ———

is for get one, age, nde, comed, comed is, comed of is, comed of is, comed on its of a player.

fraget a name, symbol

La validation of player details

Game envles

ly Game class

La Player details -> (name, symbol)

L> [Board →

Ly turn > (allow us to know which played turn is it)

4 no J Moves

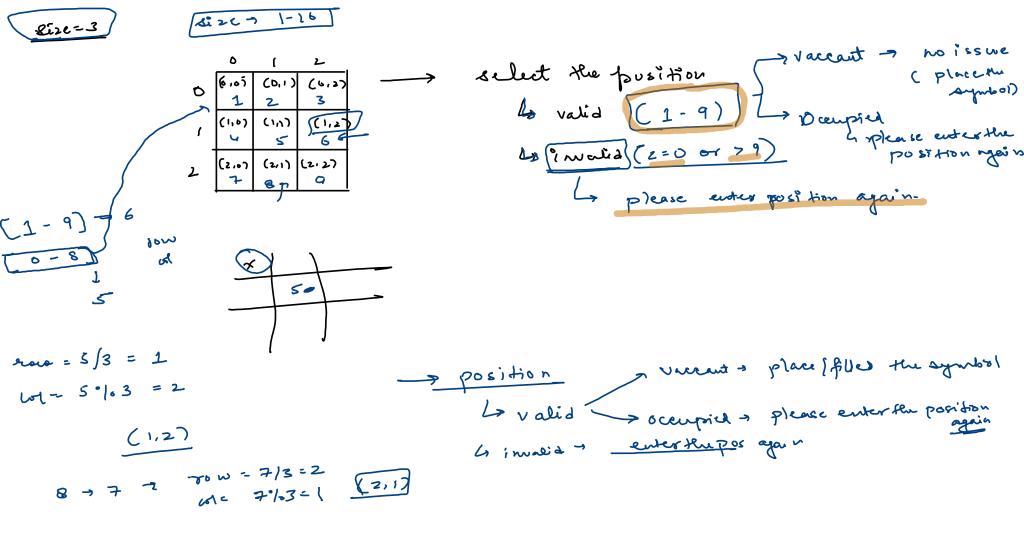
La game Over



21765=" CARE!) Size==

22705 = " 0000"

- 4 constructor (for initialization)
- 4 paint Board langing



s renos, vios

- Rowise

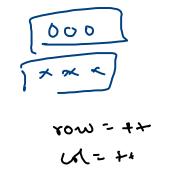
for (inti=0; ic sz; i > -) {

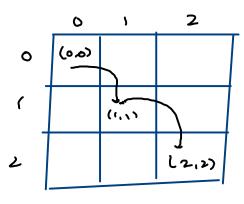
String 6 w a

for (intj-0; jesz; j++) {

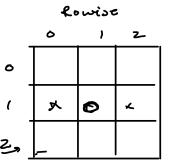
a. append (matrix (i) (i))

(a = = zeros 11 a = = cross)





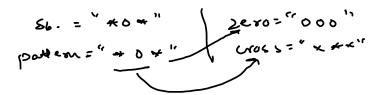
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2	(2,0)				



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.]			0	



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6			7
1		4	
2	٥	·	

- patter = "+ x0"

```
public boolean checkCombinations() {
    int sz = board.size;
    for(int i=0;i<sz;i++) {
        StringBuilder sb = new StringBuilder();
        for(int j=0;j<sz;j++) {
            sb.append(board.matrix[i][j]);
        String pattern = sb.toString();
        if (pattern.equals(zero) || pattern.equals(cross)) {
    for(int i=0;i<sz;i++) {
        StringBuilder sb = new StringBuilder();
        for(int j=0;j<sz;j++) {
            sb.append(board.matrix[j][i]);
        String pattern = sb.toString();
        if (pattern.equals(zero) || pattern.equals(cross)) {
    int i=0, j=0;
    StringBuilder sb = new StringBuilder();
    while (i<sz) {
        sb.append(board.matrix[i][j]);
        i++;
    String pattern = sb.toString();
    if (pattern.equals(zero) || pattern.equals(cross)) {
```

```
// Anti Diagonal

i=0;
j=sz-1;
sb = new StringBuilder();

while (i<sz) {
    sb.append(board.matrix[i][j]);
    i++;
    j--;
}

pattern = sb.toString();
if (pattern.equals(zero) || pattern.equals(cross)) {
    return true;
}

return false;
}</pre>
```

A -> turn +0 -> X

B -> turn +1 -> 0

Moy Move=1

D 2x3-1 -> 5

board.matrix [1][2]= players[then]. getSymbol

- Condination

3 1 da = 3 4