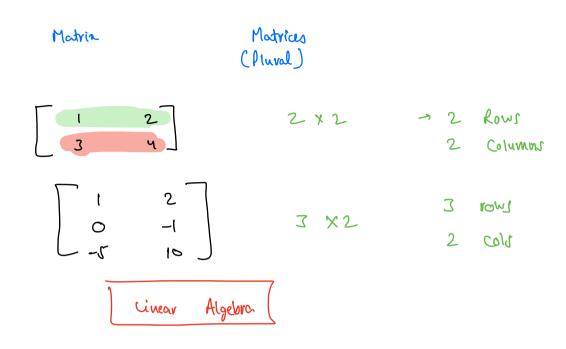
#### Career Hub

# 20 Lists

### **Agenda**

- 2D List Introduction
- Reading Input
- Sum of matrices
- Transpose
- Identity Matrix

# 20 Introduction



generale 
$$(3,2)$$
  $\Rightarrow$   $\begin{bmatrix} 0,0 \end{bmatrix}$   $\begin{bmatrix} 0,0 \end{bmatrix}$ 

#### Sum of matrices

$$\begin{bmatrix} 10 & 20 & 30 \\ 40 & 50 & 60 \end{bmatrix} + \begin{bmatrix} 0 & 5 \\ 10 & 15 \end{bmatrix}$$
Addition is NOT possible.

The dimensions must be same to add
$$\begin{bmatrix} 10 & 20 \\ 30 & 40 \end{bmatrix} + \begin{bmatrix} 0 & 5 \\ 10 & 15 \end{bmatrix} = \begin{bmatrix} 10 & 25 \\ 40 & 55 \end{bmatrix}$$
A

R

C

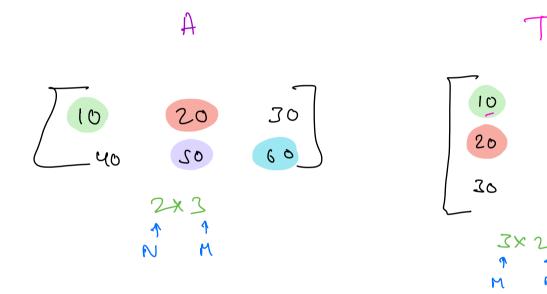
C [i] [j] = A [i] [j] + B [i] [j]

### **Transpose**

|   | 4 | 6 |
|---|---|---|
| 2 | 7 | 2 |
| 8 | 9 | 5 |

|   | 5 | 8 |
|---|---|---|
| 4 | 7 | 9 |
| 6 | 2 | 7 |

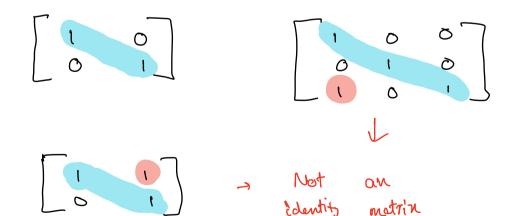
SO



$$60 - ALIJL2J \rightarrow TL2JCiJ$$

$$ALIJLj \rightarrow TLjJLiJ$$

### **Identity Matrix**



**Doubts** 

Thank 40u

Sunday- Doubt Session

Monday J Strings - Pranav Wednesday

Crood Night

Thank You

Sunday - Doubt

Monday - Strings