## CNN- Imege date

Dafa Angmentation

2) Convolution Layer

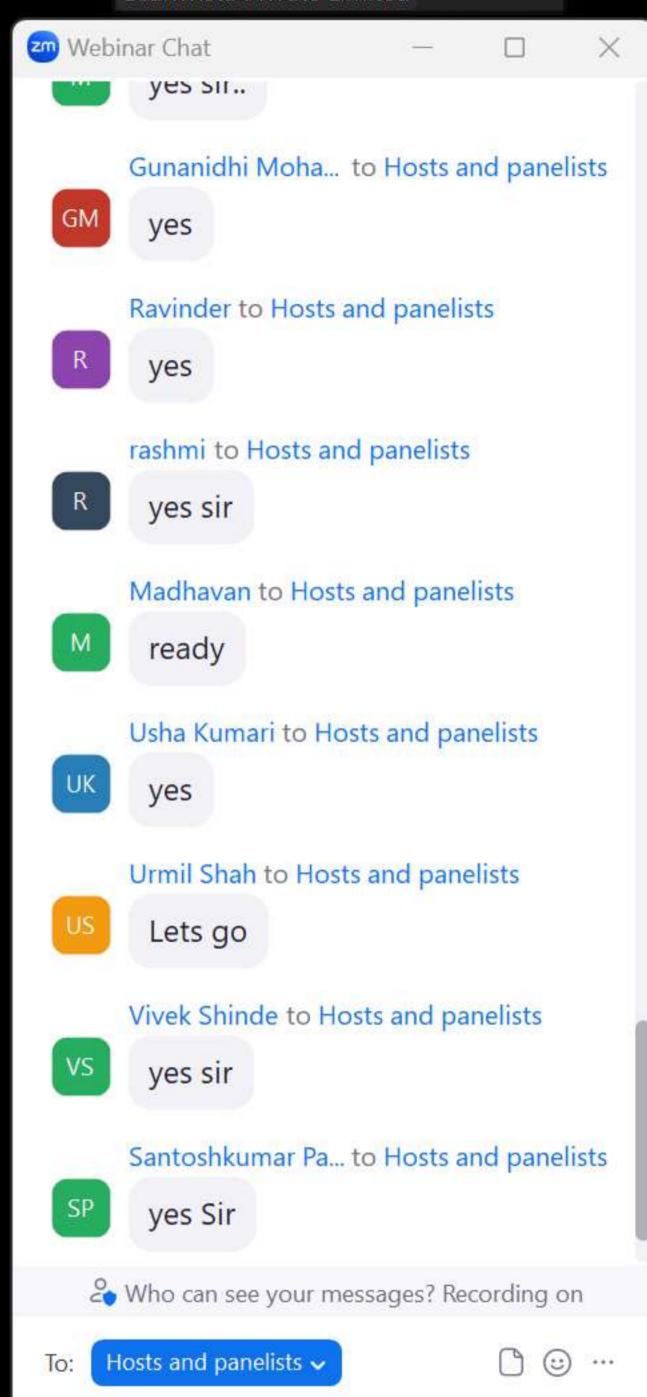
Padalit

Tem Layer W

Toolsof langer - max poolsof

#### Learnvista Priva...

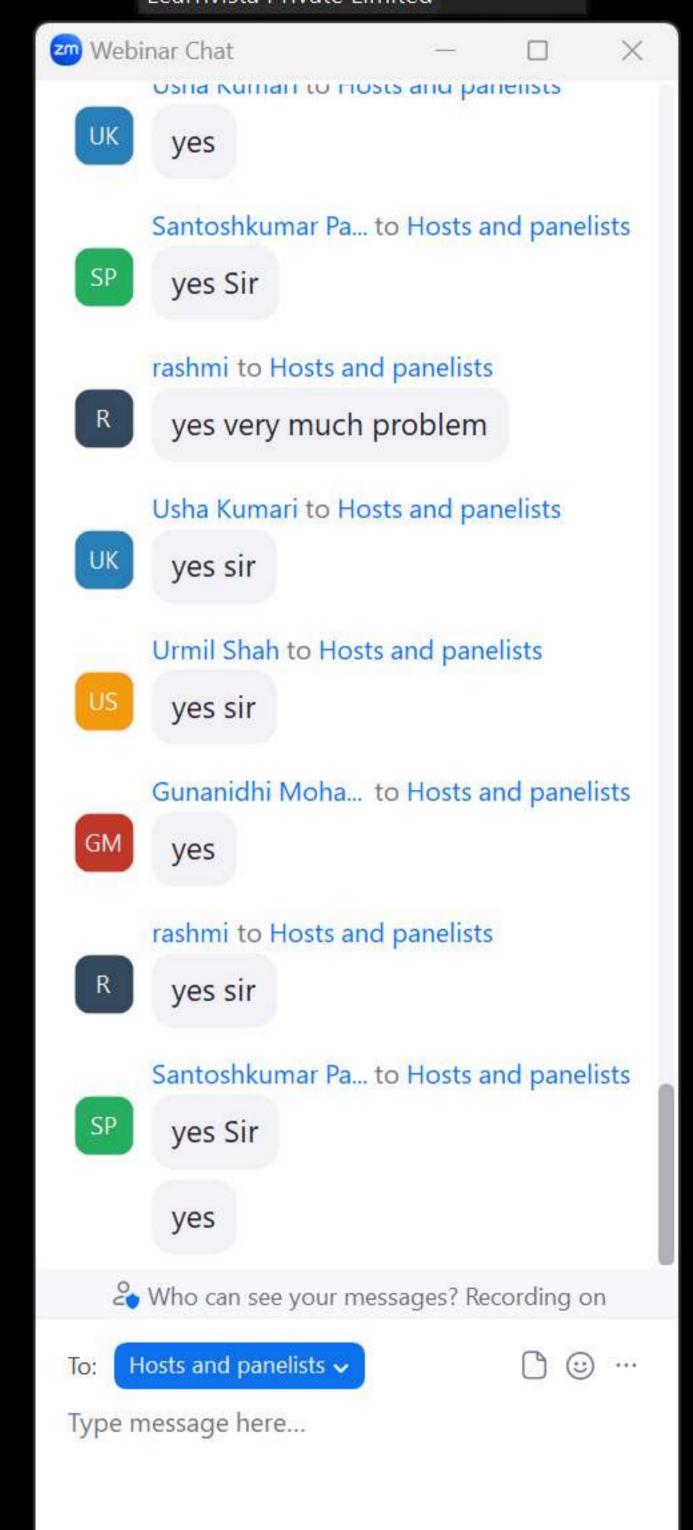
Learnvista Private Limited



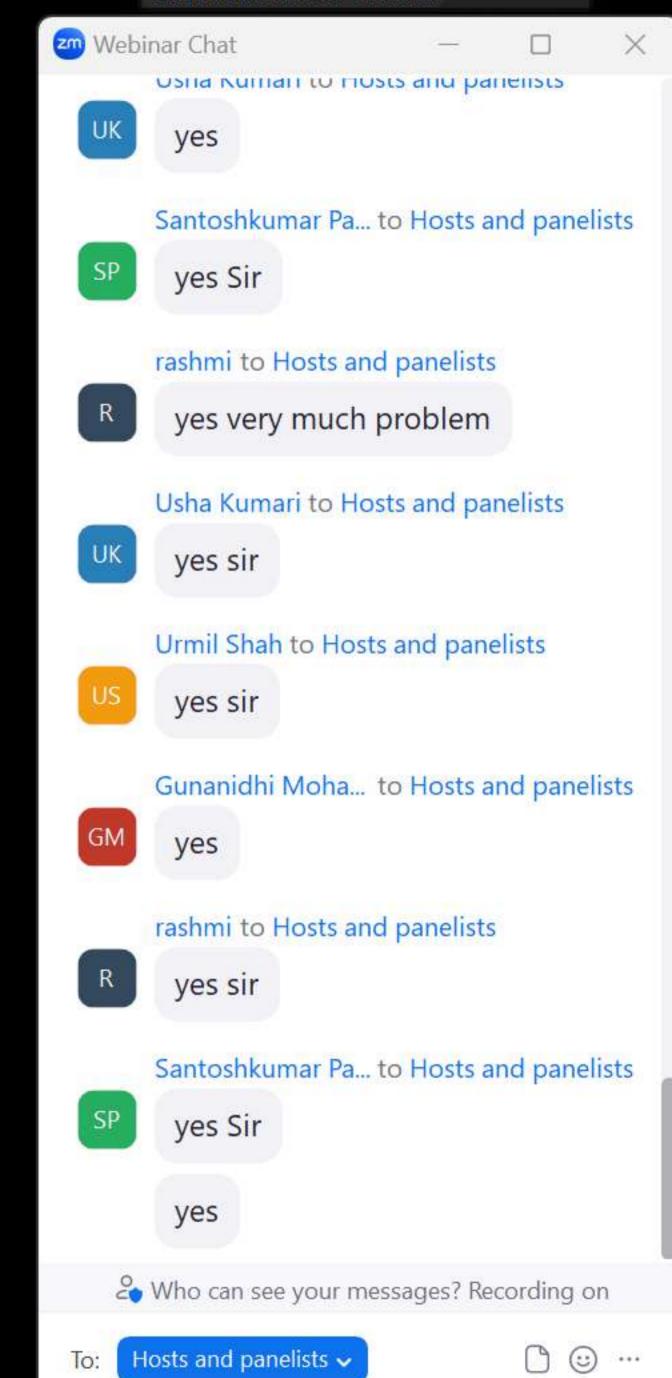
Type message here...

#### Learnvista Priva...

Learnvista Private Limited



Learnvista Priva...



Type message here...

In-varion ce means output doesn't chase 10pmt change 5118MA17.

Model Scale, flip, honzent Vertical-shoft 700m 0m+ 1m

#### Learnvista Priva...

| webi                                      | nar Chat   | ::                             |         | ×      |
|---|--|--------------------------------|---------|--------|
| UK  | Usha Kumari to Hos   | sts and par                    | nelists |        |
|   | Madhavan to Hosts and panelists  |                                |         |        |
| М   | result is dogor  | utput is                       |         |        |
|   | Nagarajan K to Hos   | sts and par                    | nelists |        |
| NK  | o/p is not affect<br>relative position<br>in the I/p for in                                      | nal chang                      | ges     |        |
|   | Santoshkumar Pa  | to Hosts a                     | nd pane | elists |
| SP  | yes  |                                |         |        |
|   | yes  |                                |         |        |
|   | Sir in that case driving on road invariance and will used a modern predict and had driving cars? | d - both<br>variance<br>del to | rs      |        |
|   | Usha Kumari to Ho  | sts and par                    | nelists |        |
| UK  | yes  |                                |         |        |
| 2 Who can see your messages? Recording on |  |                                |         |        |
| То: Н                                     | osts and panelists 🗸   |                                |         |        |
| Type m                                    | nessage here   |                                |         |        |

Why dates Augmented is useful t

In-Vanime e Shift invanime e 20 tentim x; →> 5 200m 11 Shegy NOSSe

(2) Small datesset -> Lasse dateset 1000 IORILIAC

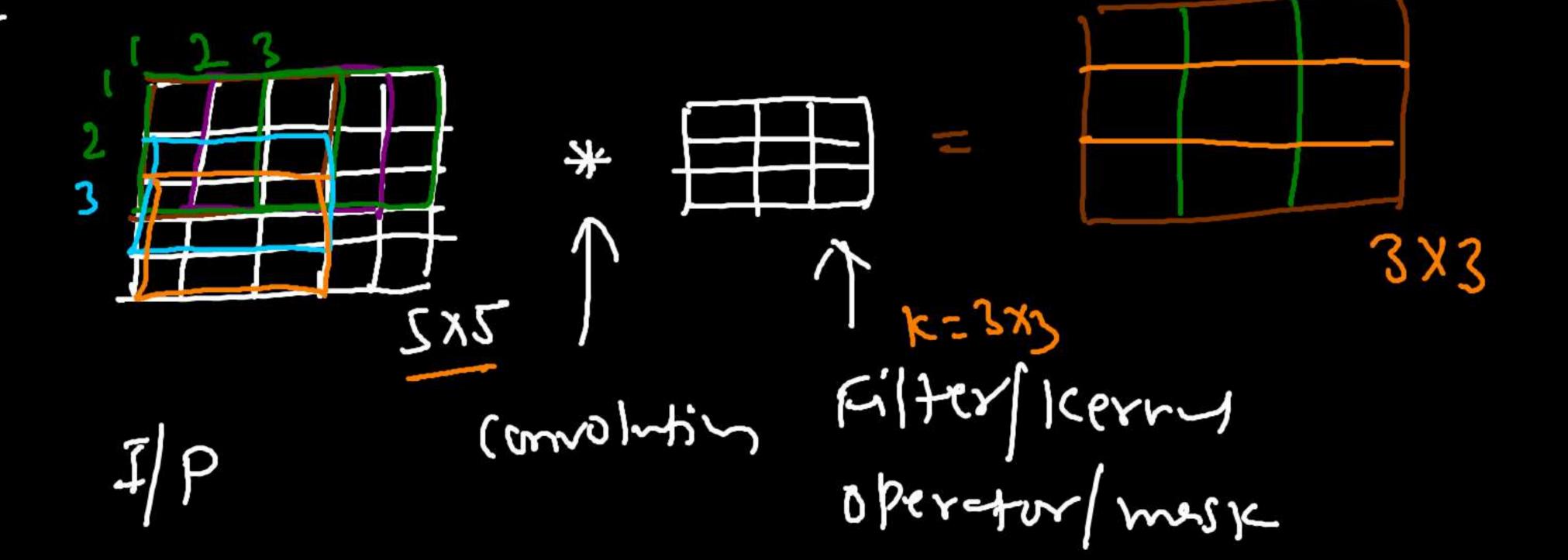
NOTE: Date Ansmentation is very very popular especialically

# CNN - 3 layers

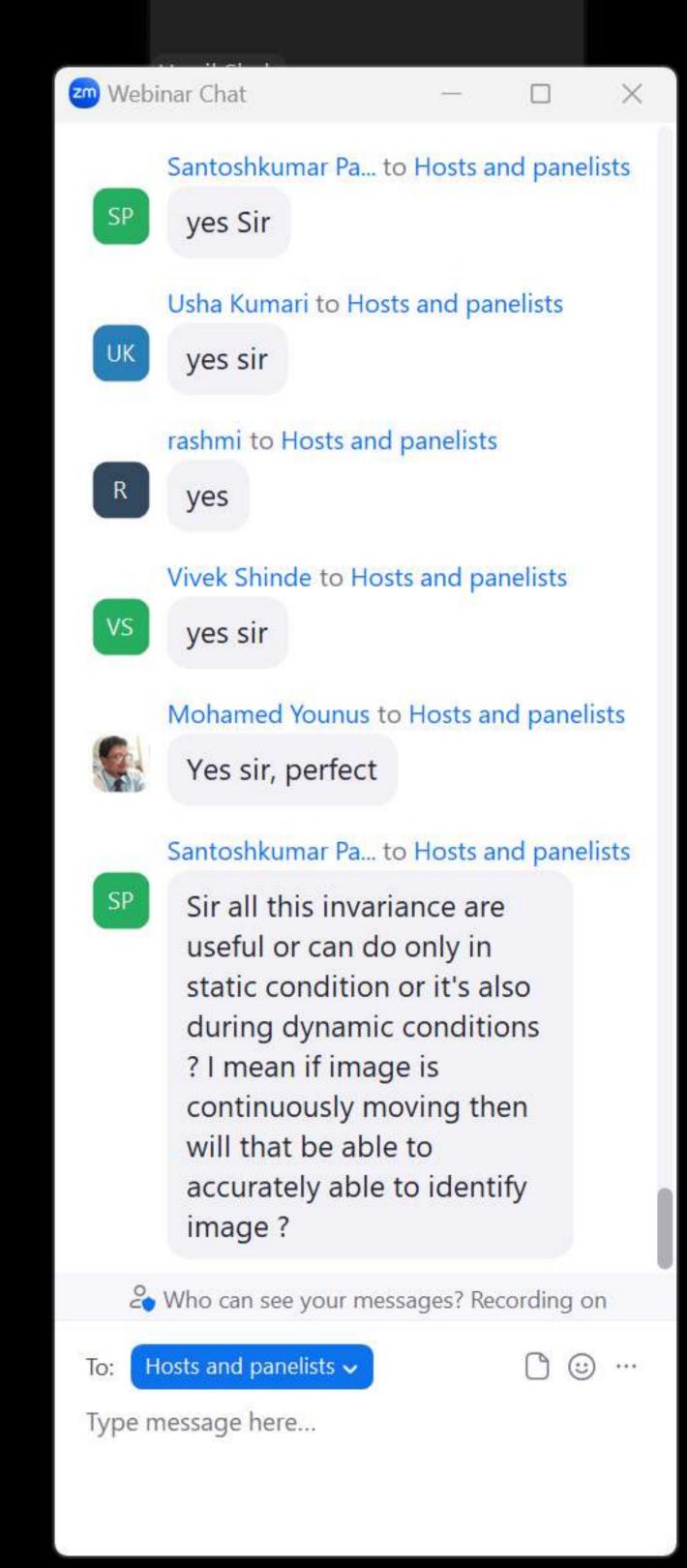
- De Convolution Layer
- 2) Relv Loy-ex
- (3) 120012 Layer

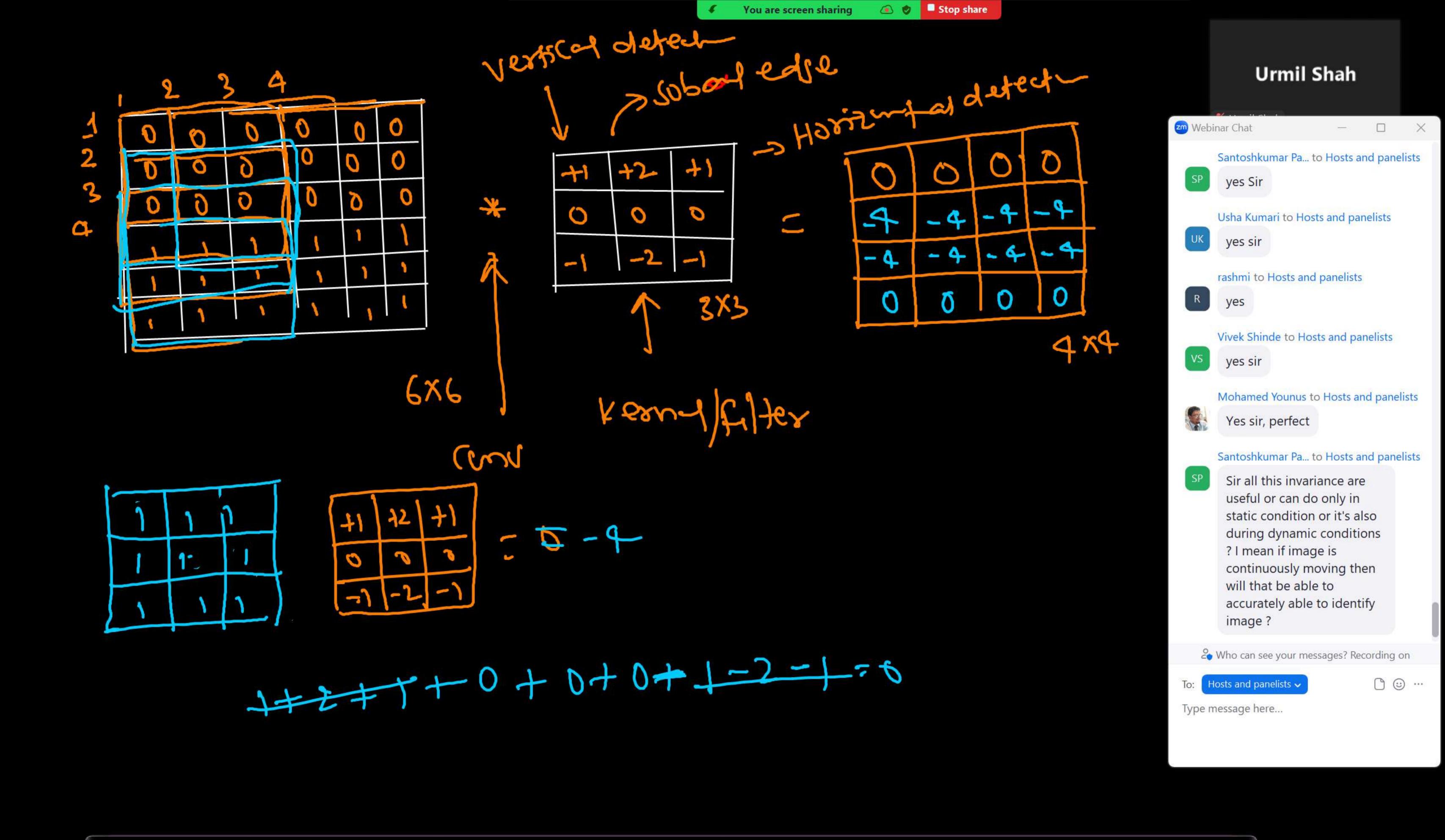
Convolution - padding ge stoode

case:



#### **Urmil Shah**





### Usha Kumari

Usha Kumari

General Formula

Input: 00\*00 Kerner/filter: f\*f TP # # = # 3x3 30x30

Support - Torput - Kerney +1

output = 6-3+1 = 4\*4

32-3+1 = 30×30

Stop share

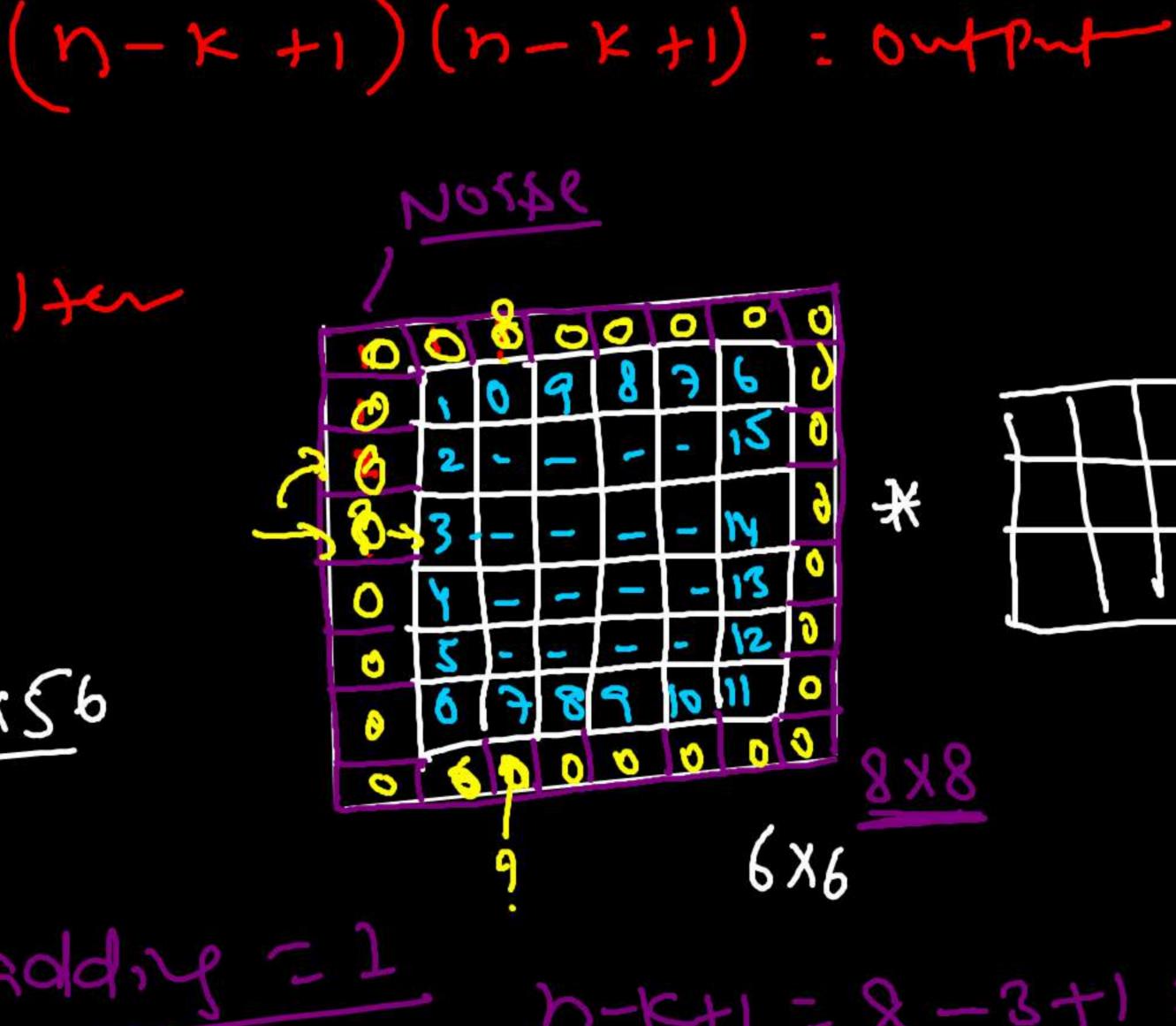
**(a)** 

### Padding

Casel :- Gener-

wxw KErmy) Filter

の: 60 K: S Owtp4: 60-5+1=56x56



Value we put webinar Chat 30 CHELL IS ESSELLIALLY saying don't reduce image

Usha Kumari to Hosts and panelists

Urmil Shah to Hosts and panelists

If we put same value, can the image change?

Usha Kumari to Hosts and panelists

Santoshkumar Pa... to Hosts and panelists

yes Sir

rashmi to Hosts and panelists

can u pls repeat this 0 thing

Santoshkumar Pa... to Hosts and panelists

understanding

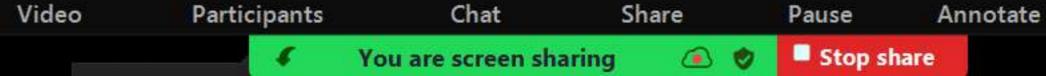
Who can see your messages? Recording on

Hosts and panelists .

Type message here...

₾ :::

= 28me



(a)

3 participants raised hand

Case 11: - Paddup

(n-K+2P+1)(n-K+2P+1) OX D KXK

**□**1 ×

Audio

かれてっ 6-3 +2\*1+1

output = 60-3+2\*1+1 Valid Same n=60 x=3

$$F = 3$$

$$P = 1$$

$$OWPWF = 60 \times 60$$

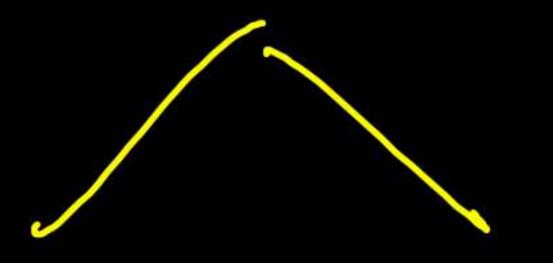
$$P = 1$$

Paddup

Show webinar

 $\odot$ 

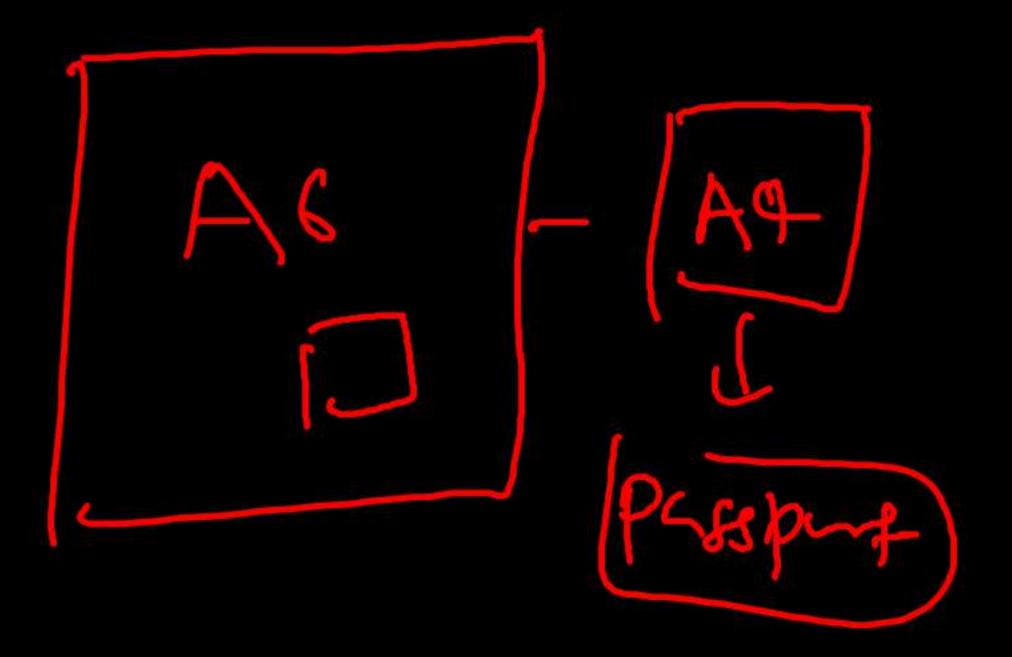
More



## Stride &

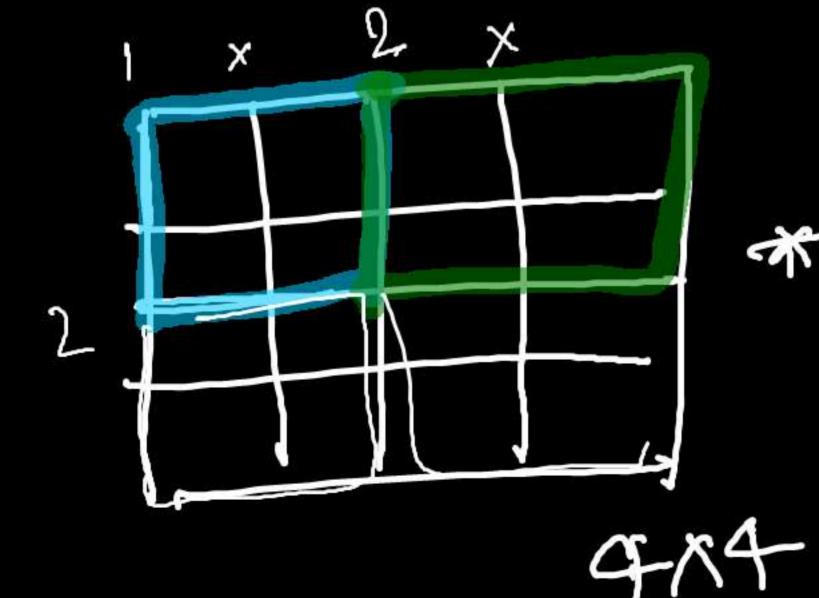
Strides -> Shifted by 1 = Spride by 1 Shifted by 2 = Stande by 2

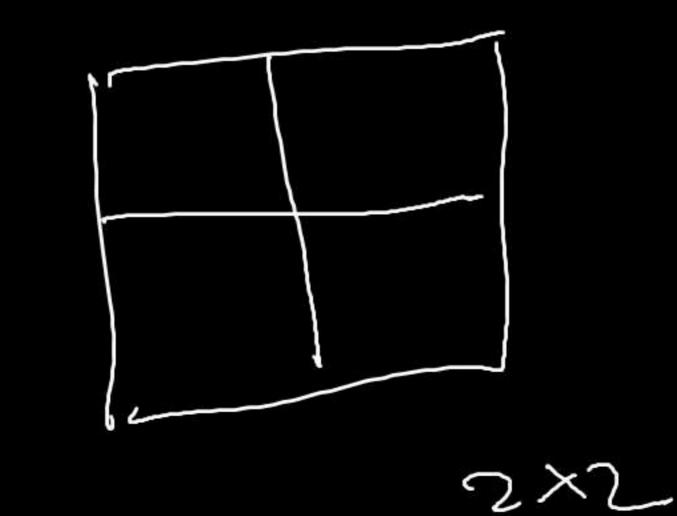
术

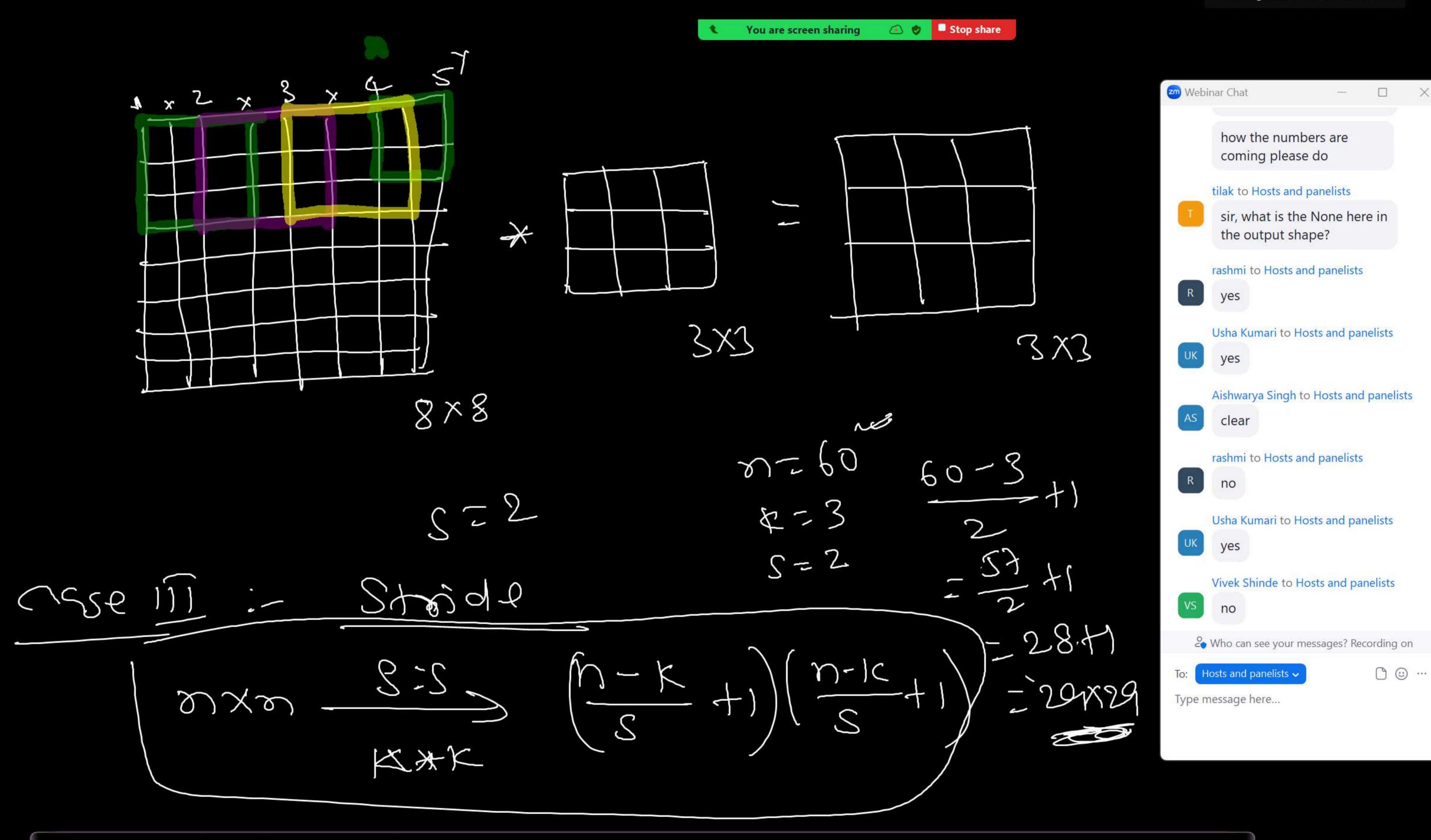


S=2: Shifting horizontelly of verticuly by 2 ping

by default system corones der stord = 1







You are screen sharing

Stop share
4 participants raised hand

Case TV: This is the best idee to

 $\frac{1}{2} \sum_{k=1}^{\infty} \frac{1}{2} \sum_{k=1}^{\infty} \frac{1}{2} \left( \frac{1}{2} \sum_{k=1}^{\infty} \frac{1}{2} \sum_{k=$ 

37-6

K = 3

S=1=64 def-1

P=O-NO PROdus/Vakid

output = 6-3+2\*0 +1-474=Grenery Function of the Cope ?

webinar Chat there is no difference as because by default shift is one and we also giving stride = 1 Usha Kumari to Hosts and panelists Nagarajan K to Hosts and panelists kernel size is a hyperparameter? rashmi to Hosts and panelists Usha Kumari to Hosts and panelists Sahas Swamy to Hosts and panelists

Aishwarya Singh to Hosts and panelists

can you please go to the code where stride is 2?

2 Who can see your messages? Recording on

₾ :::

To: Hosts and panelists •

Type message here...

