How to Translate images with opency &
Translate > Geometrical transformation.
There are two ways we can go ahead
Dusing built in smutils Package
2) Using WarpAffine function.
What is Translating ?
It is nothing but Shifting the image in X and Y direction.
To Translate an image is given by a numpy matrix in the form
Pixels
Li, O, Shift A. J, Pixels
[1,0,Shiftx], Pixels [0,1,Shifty]

Shift X and Shift Y are the most important theys.
Negotive Values of Shift X - It will shift the image to Left
Positive values of Shift X - It will shift the image to the sight.
Negative Value of Shift y - It will shift the image UP
Posstive Value of Shift y - It will shift the
hets de ar example for warp Affine
$M = np \cdot floot 32 \left(\left[\left[1, 0, 25 \right] \right] \right)$
The cebove example what it will do is that,
It will shift the image Right
and it will the image to down

So Now we have constructed the Tourslation matrix; all we have to do is apply warp offine () Shifted = eva woopAffine Cinage, M, Cimage. Shape [i], image. shape [o]) CV2. inshow (" Shifted down and Right", Shifted) 2) Now lots does the example for <u>inutils</u> It import the package. impost inutils

Shifty Shifty Shefted = imatels. to anslate (image, 0, 100) CV2. inshow ("Shifted Down", Shifted)
eva. Wait key (0) when we use inatiles > it is going to be in one line, but not with the case of warp Affine