

Fully controllable camera: 6 Moves (Front, Back, Left, Right, Up, Down) 6 Rotations

4 global variables:

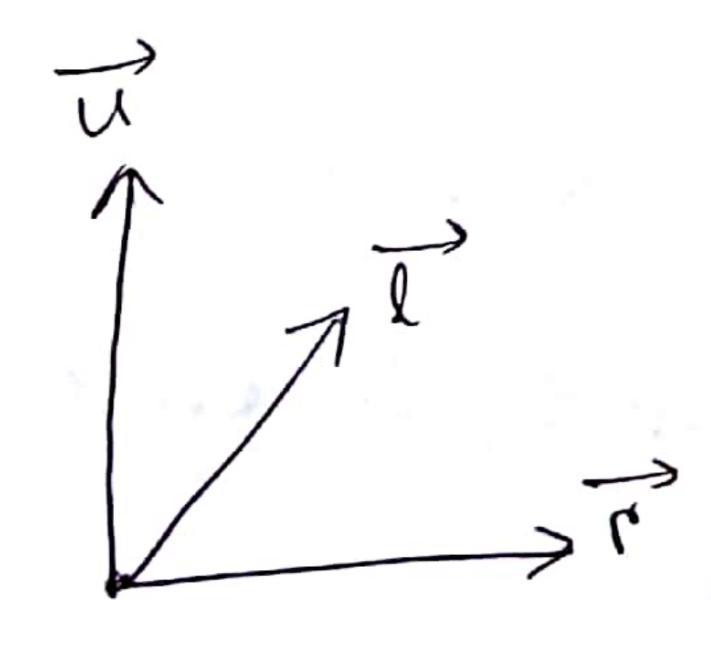
pos pos (comera position) - 3d point of variables

T, r, u sup vector

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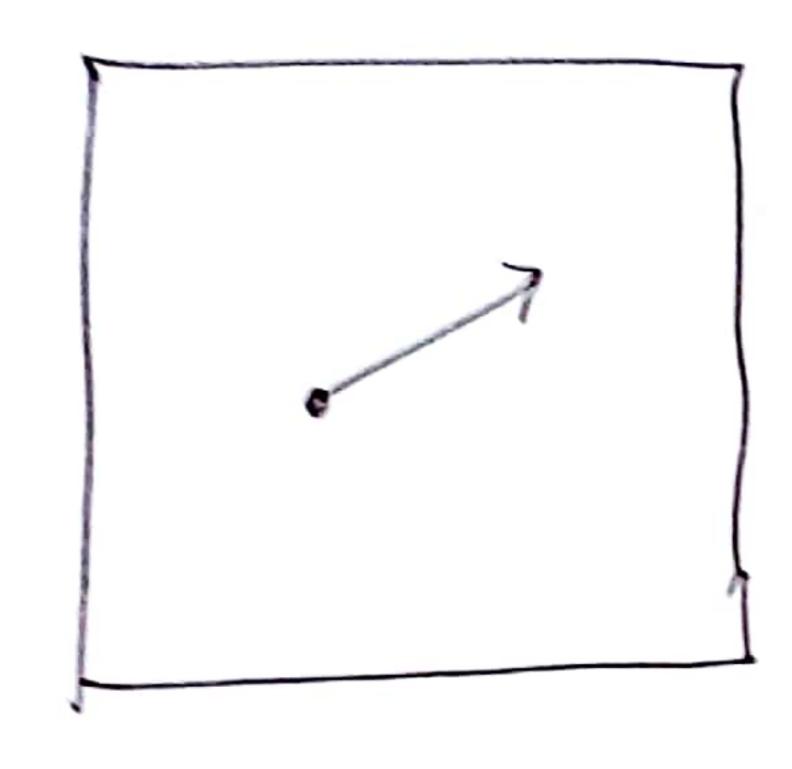
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vectors and perpondicular



tilt -> rotation w.r. to

। खाळ एतकाए काले हृद्ध १ २०५ क Right Button Click - pos=pos+6



pos (x,y)

In Animate function:

pos = pos+ v

(pos)

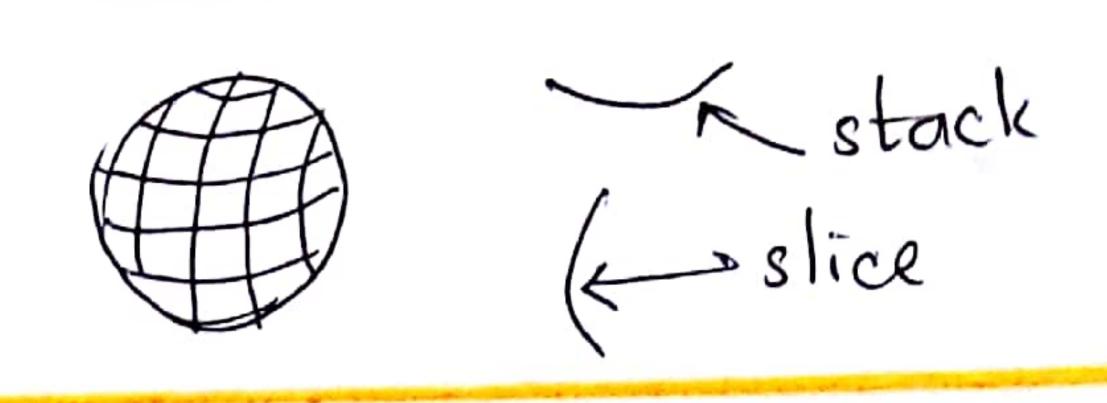
When the arrow starts to go out of the box, find

The reflection of the vector v.

Here the normal vectors are i and j.

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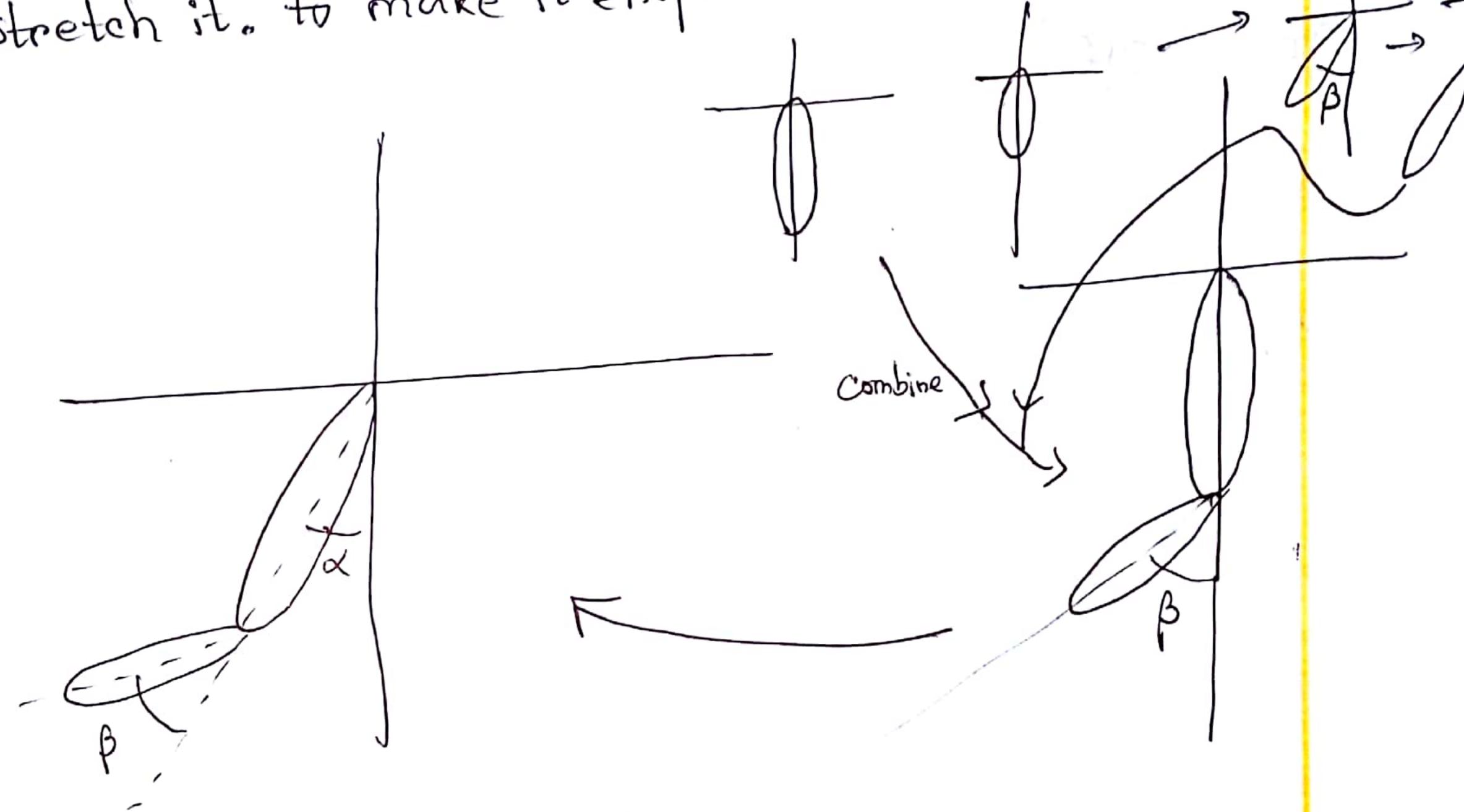
=>> Rotote vector by 5° clockwise or anticlockwise



Robotic arms:

6 x2 = 12 transformations

Use OpenGL library to use draw Sphere and then stretch it. to make it ellipsoid. - radius, stack, slice



$$\alpha = -45^{\circ} + 645^{\circ}$$

$$\beta = 0 + 690^{\circ}$$

Fully controllable comera only for 3D box For Robotic Arm, place the cornera in a suitable For Robotic Arm, place the cornera in a suitable position so that all transformations can be seen.

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* All 4 assignments should be done in C++

* Always zip. Don't "rar", 10% mark for each accurate submission.

Room 216