**Computer Vision Test**: Evaluate depth images of a simulated cube from a simulated IR beamer and simulated camera from different poses.

**Completed Task:**

1. Create Cube with given length, width and height (actually cube needs only length but question might be referring cuboid).
2. Transform Cube to be placed at given pose in WCS.
3. Create a simulated IR Emitter with given Horizontal and Vertical FOV.
4. Prepare the rays that must be emitted by emitter at given Horizontal and Vertical resolution.
5. Transform the Emitter to given pose according to the camera.
6. Simulate the rays intersecting the Cube in WCS. At first only red strips were used but later it was changed to coloured strips for easy matching in the images later.
7. Create a camera according to given focal length. The displacement parameters of the camera frame are not considered and the image displacement is considered to half the vertical and horizontal FOV. This happened because I forgot to take care of these parameters and aligned the image frame at exact middle.
8. Grab two images: the image grabbed by camera and the image grabbed by the same from emitter pose.
9. Find the corresponding pixel matches in two images.

**Remaining Task:**

1. Align Epipolar lines in the two images to calculate find Disparity and then Depth image.
2. Create a function to use the code with the mentioned parameters
3. Think of different parameters and poses to test the simulation.