## Short note on Alianing and Anti Acianing

Alianing: - A problem with high presolution texturning is alianing, which occurs when adjacent pixels in a mendered image are sampled from pixels that are far apart in a dexture image.

o By down-sampling-reducing the size of a textuxalianing can be reduced for far away or small objects that then textured objects work blurry when close to the viewer.

Antialianing: - It is a technique used in Computer graphics to remove the alianing effect. The alianing effect is the appearance of jagged or " & jaggies," in a sastorized image. The problem of jagged edges technically occurs due to distortion of the image when scan conversion is done with sampling at a low frequency, which is also known as undersampling. Alianing occurs when seal - world objects which comprise of smooth, continuous curves an sasterised using pixels.

Came of auti-alianing is Vodersampling. Undersampling results in loss of information of the picture.

Undersampling occurs when sampling is done at a frequency sower than Hyguist sampling frequency o to avoid this loss, we need to have our sampling frequency atteasts twice that of highest frequency occurring in the object.