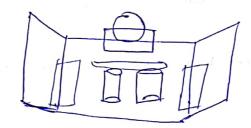
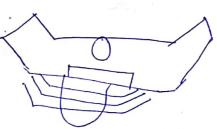


@ Cylindas_ Rectangles, Sphaes.





top View



- (Yeate models: Design or Sphere, two lylinders and

 then 3 Rectangular Surfaces. Sphere for globe, Cylinder

 for beams. 2 grectangular surfaces for LED surfaces and

 Pertangular surface for Barner
 - (b) world: Emport Each model into the world rep Portico and adjust its positions in accordance with Requirments and adjust the size to

Correso. Adjust the Carrela to get a Propo View and ter is to a switable position

(d) Viewport: According to the Camera Set a view fort

(2) screen - flush Bruything to the screen.

(realte Model -) World -> Lamua -> Vicugait -> Screen

600×60 Initial according the question Beams are at origin

1) Son Since Beam i in already at origin, we need not tray

70 get Beam, to (300,800)

translate au the points in Cylinder by adding [300] transtation Vector for all pin Cylinder pl=pt1

where p' is new co-ordinates

fig old-co-ordinates

Tis Travlation Vertex.

sundingen:
(2) Translation

3 In normal Corondinates in is as simple as plapers
In Homogenous Coronantes 7 it is

$$\begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 1 & 0 & tx \\ 0 & 1 & ty \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} y \\ y \\ 1 \end{bmatrix}$$

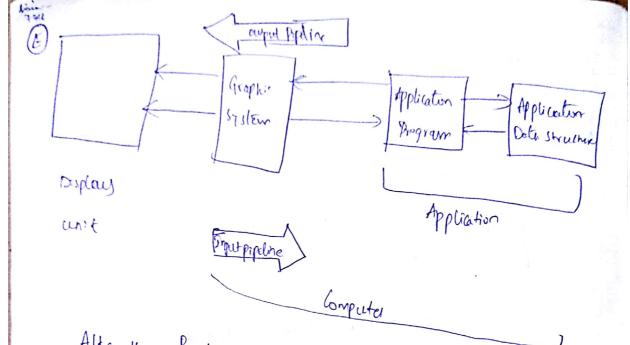
n', y' air new Corordinates

niv are old coordinates

(trity) = (300,300)

- (4) Since the lamua size is in Sation of 1:1 it is better to choose sation 1:1

 Aspect Ratio + Wieth: Height
- Aspert Roto
 - (2) Comera Position (Set)
 - 3 Depth of Frew
 - (4) Lighting & Exposure
 - 1 Field of View



After the Rendering Process, a Vertor amage is Paroduced which is Composed of points and Paths Rether than Pixels. Their amage Contains the amage of Baildons Either in top View of Front View Defined with an the Requirements i-e, two whole can Beams, Globe Gerard Had Surfole in appropriate places

(G) this can be Done by lay tracing Path which is a furdering technique for Generating an smage by tracing the Path of light as pixely in smeage Plane and Simulating the spects of the Shaunters with vertical objects

By winy gl Push Matrix (1 and gl pop matrix (), we can apply transformation on Bram 1, without Effectivy Beams and other Objects, Push matrix saves the current lo-ordinale system in Stack whereas Pop matrix Restory it.

The world of Model of

Where Mmodel Performs the Appropriate Coordinate charge (Rotation, translation, Scale) to Rain Yester

then transform the Vertices from the world space to the Eye @ Comain Space, we need other material Municiple to apply the transformation

Then Specificy a viewing Volume @ elipping Volume
are selecting a projection model/view

- No, it Can't be done unless you Rasterize the Picker Person any Operation Suct as Color Correction, cudding textury since (Can be done only through pixels which it a printing of Patter picture. This land be Easily found in the Moh, Photoshop when you would Prosterize picture for apply some color Correction and all.
 - E sice clipping is cutting out a portion of an object, after the clipping your con only see Beans.
 - D when we Apply Cullis to Bean 1, 14 has no effect on Beans, But Dean 1 will be Completely Enclused our Pipeline

POPGB Hands to

1.15

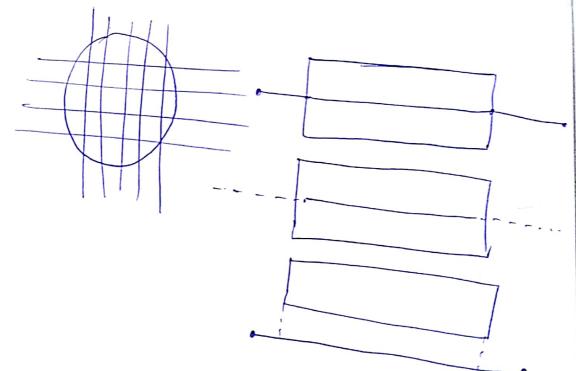
Pro.

M RGB Stand for Ped, freer and Blue and Panges

from ot sir to Rigigs

(0,0,0) -> Beam will be filled with Bort color

(ii) (255, 255, 250) -> Beams will be filled with while in bolor



Parkally Visible: Both Enterior and both outside the window

fully write: Both Grad the Window

Not visible: Intersects outside Window

B) sinch clipping is cutting out a portion of an Object After, clipping Beams, you can only see beams.