Contouring Method ExpErimEnt manual

Objective: **To draw contours (lines of equal elevation) of land surface to represent the topography of the terrain.**

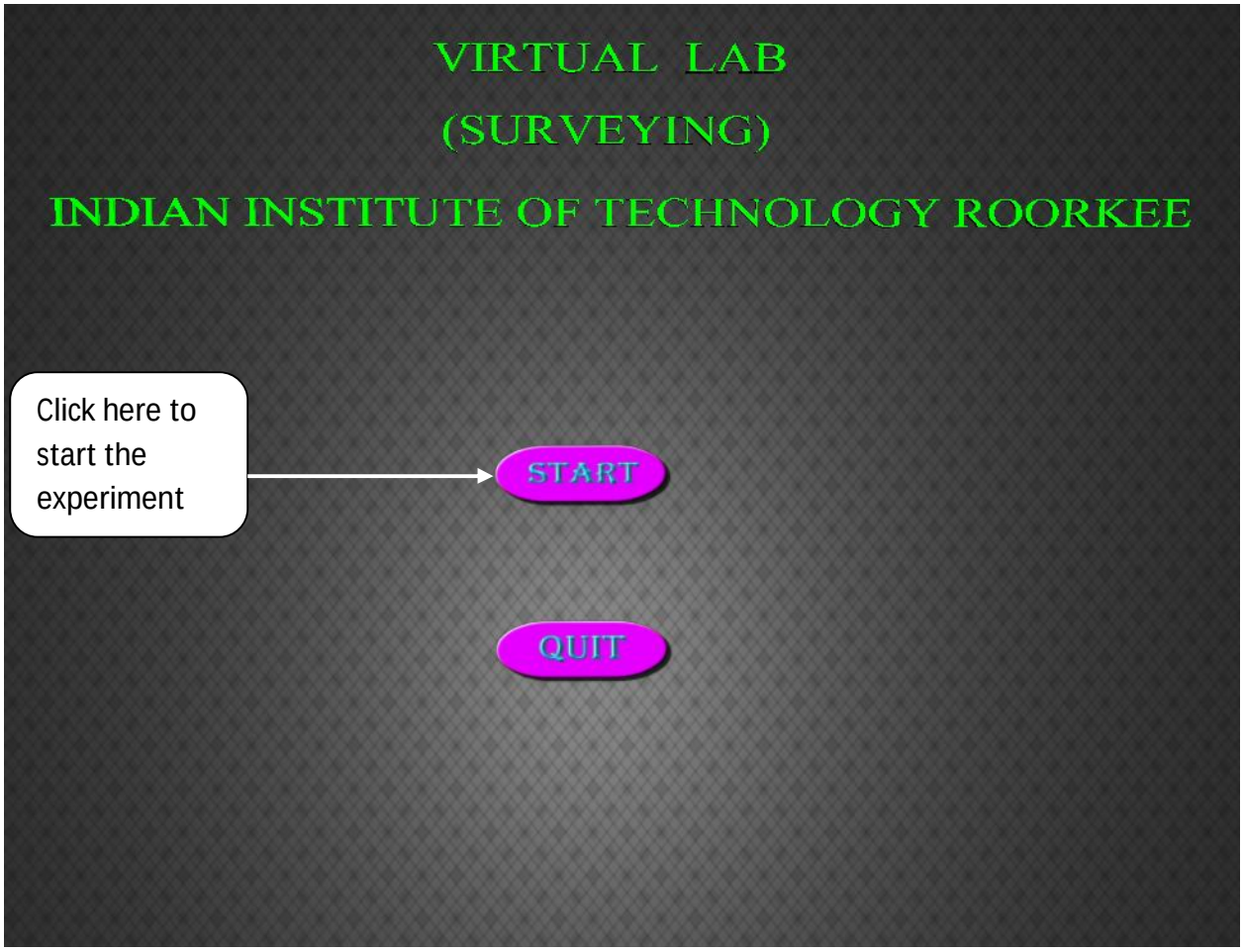
Equipment details**:**

1. **Level or Theodolite**
2. **Staff**
3. **Clinometer & Clinopole**

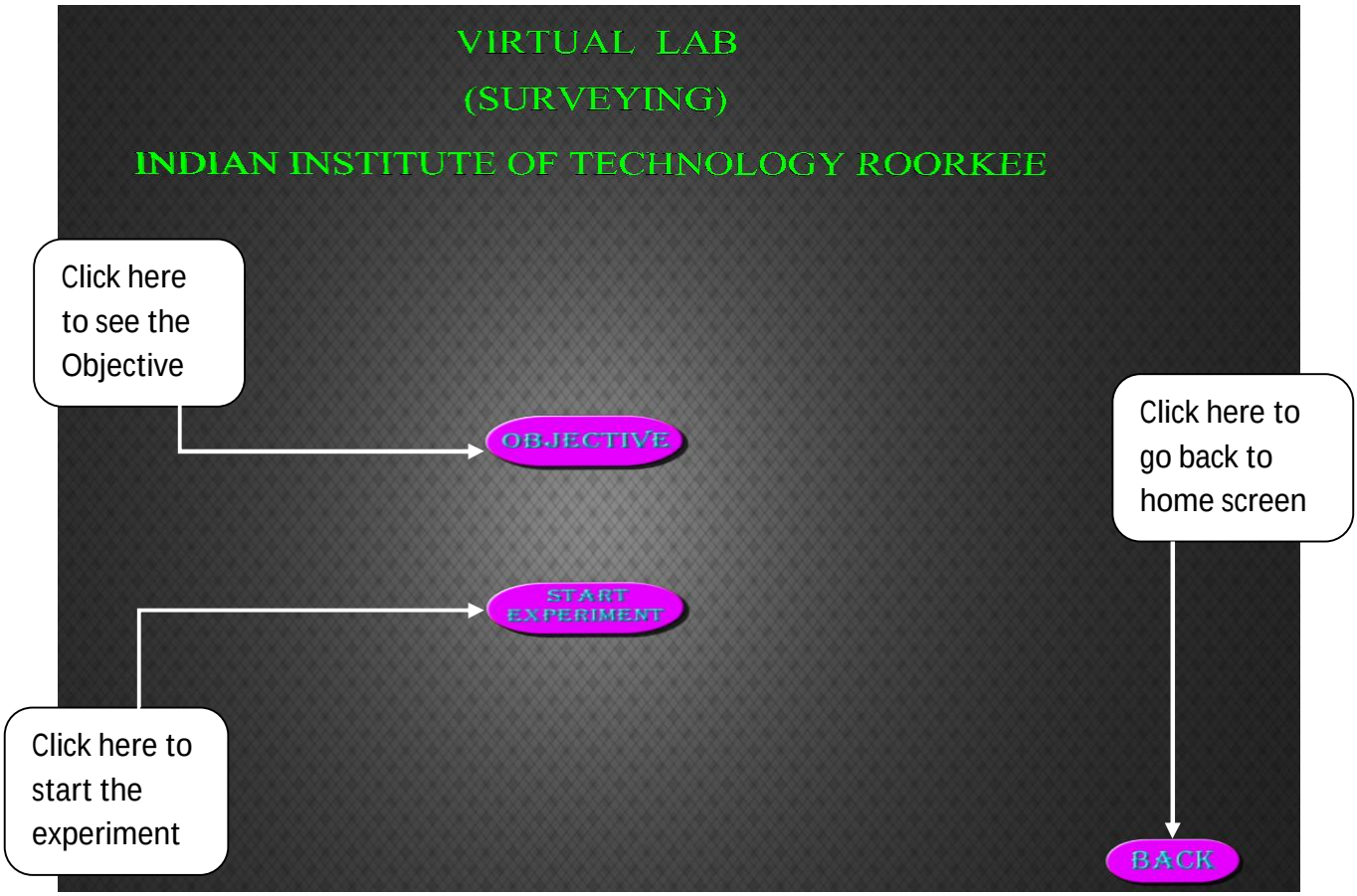
Procedure: To carry out this experiment in 2D and 3D environment on a computer system, following steps to be followed:

Step 1:

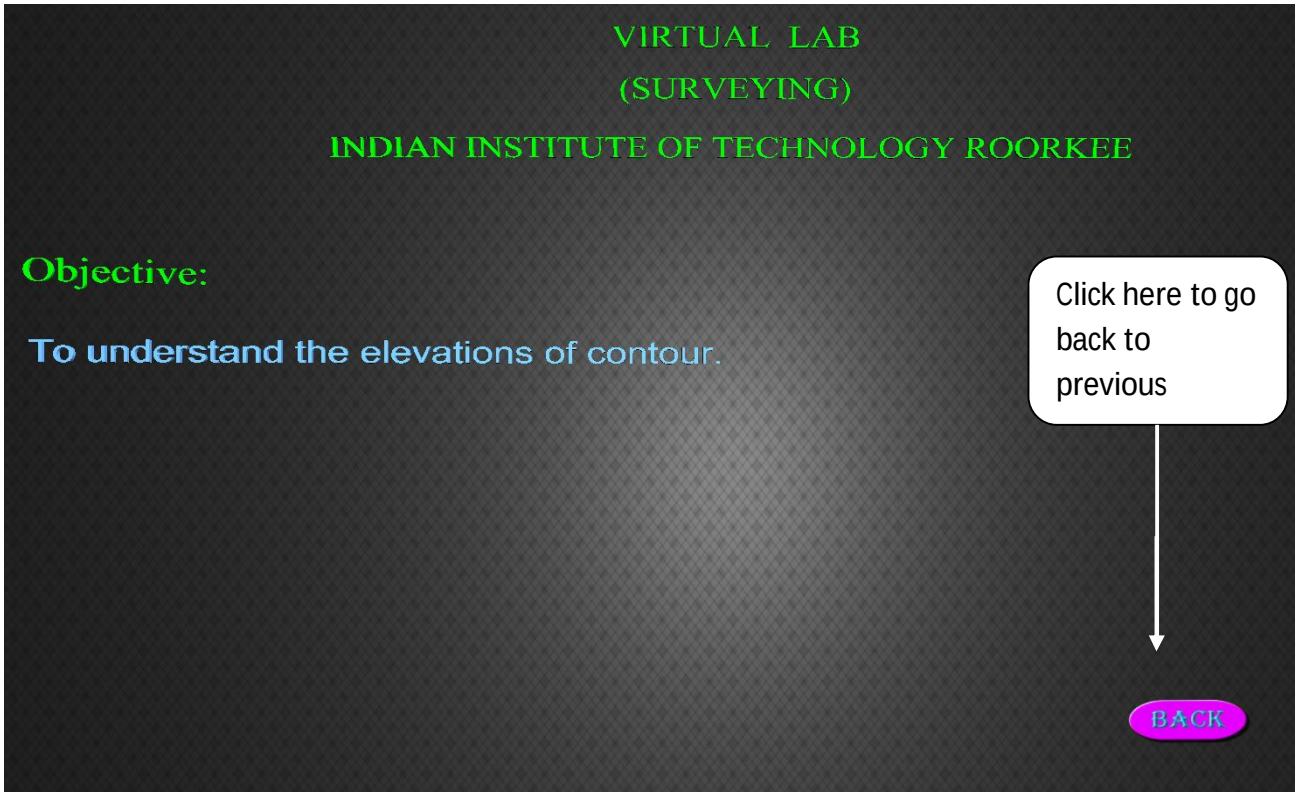
Click on main file until home screen appears as shown in the picture below:



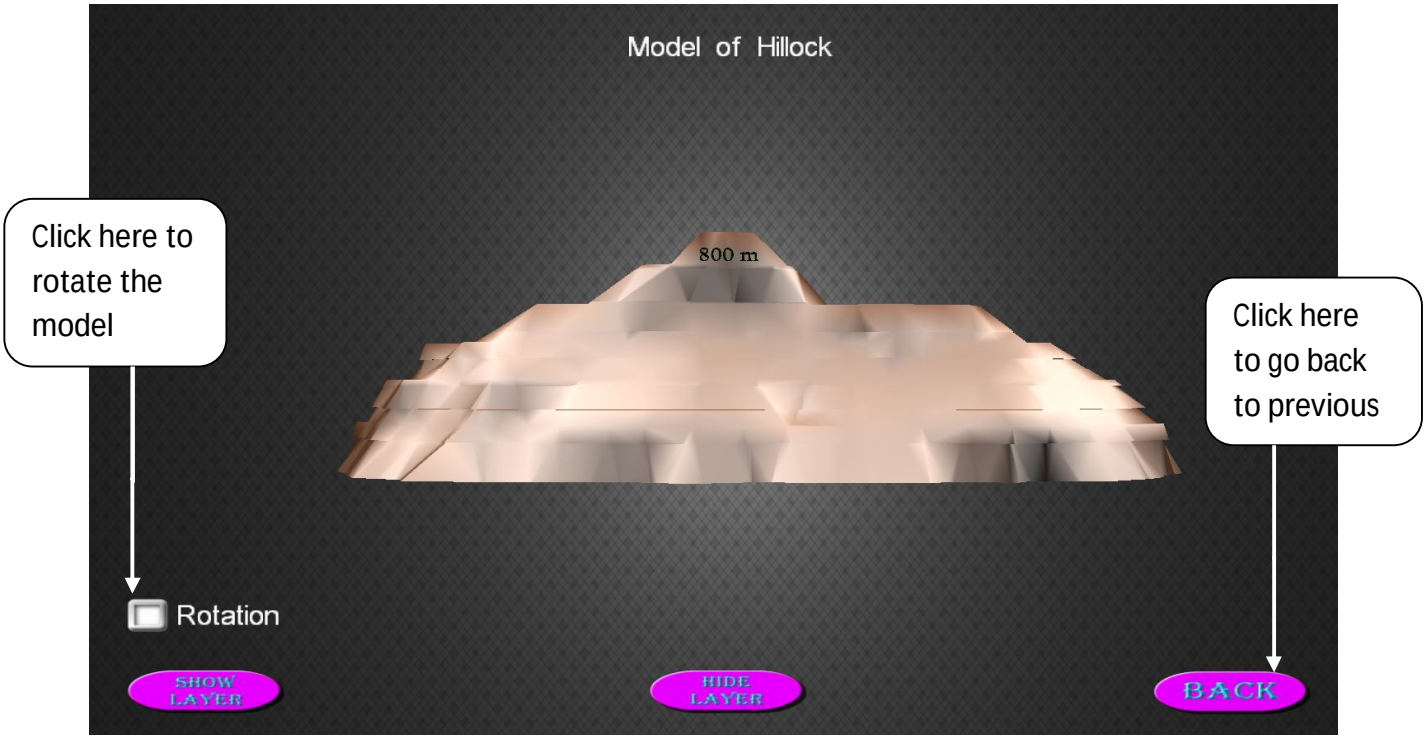
Step 2: By clicking on 'START', following screen appears:



Step 3: By clicking on 'OBJECTIVE', following screen appears:

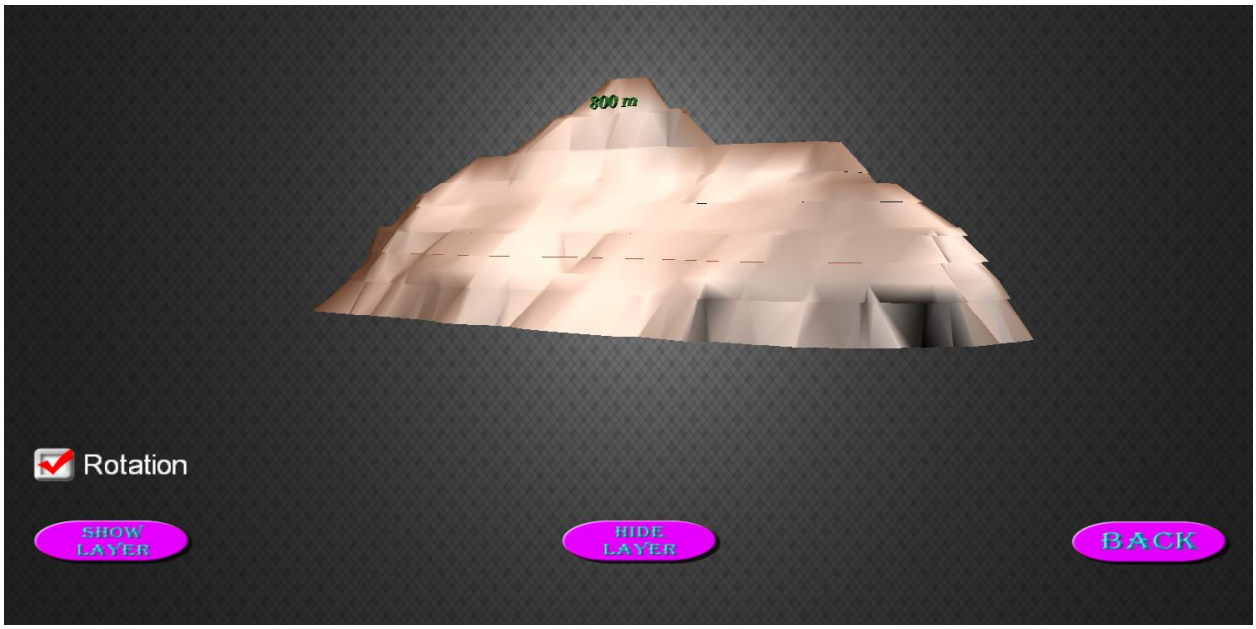


Step 4: By clicking on 'START EXPERIMENT', following screen appears:

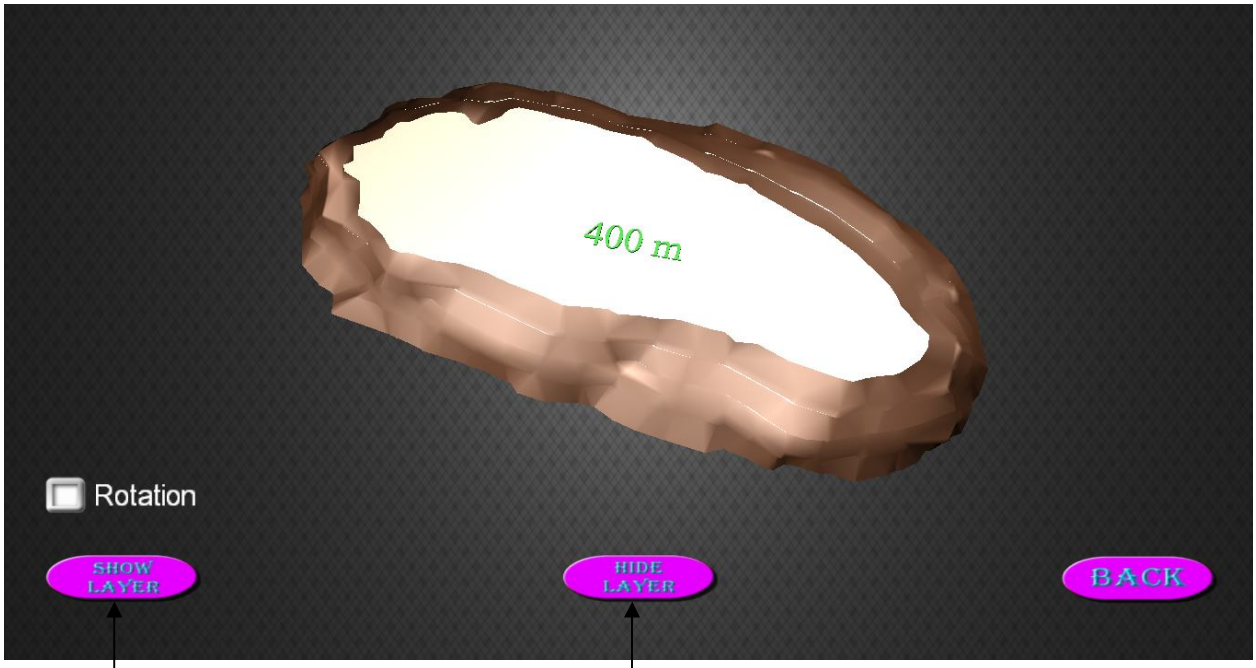


A model of hilly area is shown having 100m minimum elevation and 800m maximum elevation. This model can be rotated in three dimensional spaces to see the terrain from various directions and heights. This model helps in learning the shape of elevation contours of a hilly area. The model of hill can be sliced at various elevations and contours can be displayed at 100m contour interval. The outer periphery of the slice will show the shape of the contour line.

Step 5: By checking on 'Rotation', this model begins rotating to show 3D view. To stop rotation, check off 'Rotation' checkbox.



Step 6: Click on 'Next Contour', to display next contour and click on 'Previous Contour', to display previous contour.



Click here to show next contour

Click here to show previous contour

The model can be rotated manually by holding down right mouse click