

# COP290

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## **1 Introduction**

The following software can be described as one which can be used to convert views of an object taken from one form to another. Inputting a view in 3-Dimensional can be converted into 2-Dimensional views, similarly, if we input the adequate number of views in the 2-Dimension (Front View, Top View, Side View), we can convert the 2-Dimensional Views into 3-Dimensional view

## **2 Conversion of 3-Dimensional View to 2-Dimensional View**

Input:

A text file named Inputfile.txt which first contains the number of lines being pro-

vided as input and then for each line we have 2 3-Dimensional points which are end points of line segments of the 3-Dimensional figure.

Output:

Three 2-Dimensional Views obtain by projecting the image of the 3-Dimensional object upon the 3 axes to obtain the respective views

### **3 Conversion of 2-Dimensional Views to 3-Dimensional**

Input:

A text file named a.txt which first contains the number of lines which have to be provided for each view, and each line contains the end points of the line segments which are there in the 2-Dimensional View

Output:

An Isometric 3-Dimensional View

## 4 Conclusion

Hence by taking input ,the coordinates of the end points of the line segments and the number of lines in the views, we can accordingly convert the views from one dimension to another