```
class Component {
                   Component Identification
                             // component number
                   char
                                       Counters
                    */
                                      block_id_counter ;
num_polygonsets;
                                                                              // for id assignment of blocks
// Num of polysets attched to firstset
                   int
                   int
                   Link List members
                                      *nextc;
*comp_block;
*firstset;
                                                                              // next component
to the first block of block list
// head of the list of polygon sets
                   Component
                   Block
                   PolygonSet
                   /*
**
                                       Graph Representation
                   * /
                                                                    // graph which repres
Reference Dimension Graph
Specified Dimension Graph
                                                *comp_graph ;
                                                                             graph which represents this comp
                   Graph
                   DimensionGraph *ref_dim_graph; //
DimensionGraph *spec_dim_graph;//
                   void
                                      Scale(int side, double);
         public :
                                                Link List functionality
                    */
                                       Link_Blocks( Block *cb);
Link_PolygonSets(PolygonSet* pp);
                   void
                   void
                                                Transformations
                   */
                                                                  Scale(XAXIS, val);}
Scale(YAXIS, val);}
Scale(ZAXIS, val);}
                   void
                                       ScaleX(double val){
                                       ScaleY(double val) {
ScaleZ(double val) {
                   void
                   void
                   void
                                       Scale(double val) {
                                                          ScaleX(val);
                                                          ScaleY(val);
                                                          ScaleZ(val);
                                                 }
                                                 Display functionality
                   */
                                                 virtual double virtual void
                   virtual int
                                                 PolygonSet_Display();
                   virtual void
                                                 Dimensioning functionality
                   virtual void
                                                 Create_default_dim_graphs();
                   /*
**
                                                 Editing functions
                   virtual void
                                                 Copy_for_Edit( Component* co);
                                                 File operations
                                                 Write_to_file( FILE *fp);
Write_to_Venkys_file( FILE *fp);
                   virtual void
                   virtual void
```