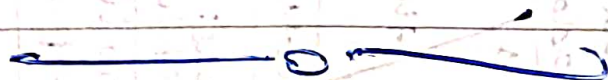## 7) Graphics Editor

- **Problem statement**

Design SRS for graphics editor.

- **Software Requirements Specification**

The graphics editor provides an application programmer's interface that enables a programmer to develop their own graphical model editor for a specific type of model. This API in turn, relies on extending the eclipse graphical editing framework to provide an environment in which editor functions & programmer can create a graphical editor & palette of shapes in order to modify an underlying model. The graphical editor provides an interface with which the programmer implements said editor for a given underlying model. Such an instance of graphical editor allows a user to drag & drop objects into a working graphical diagram.

It should support following functionalities

(i) Contains toolbox which contains tools like line, circle, rectangle, arc, text, draw, eraser.

(ii) Color box or palette.

(iii) standard toolbar w/ options for new, open, save, toolbox & text toolbox.

(iv) One integrated view to users for toolbar which color box, ~~contains~~ menu, & graphic screen.

(v) Easy handling of tools for users.

(vi) Ability to group several drawings into one i.e. complex drawing.

(vii) Provision of zoom In & zoom out.

(viii) Different shadings of line tool are provided.

— OR —

7) **Graphics Editor**

ARC
+angle: int
+dia: int

LINE
+len: int

ONE DIMEN
+linewi: int
+readdiagram()

TWO DIMEN
+linewi: int
+ort: degree

ELLIPSE
+len: int
+bore: int

RECTANGLE
+length: int
+breadth: int

CIRCLE
+rad: int

OBJECT
+create obj: int
+delete obj: int
+name: string
+create()
+delete()
+color()

TEXT
+string: string
+font: string
+size: string
+clear()
+remove()

GROUP
+name: string
+created: int
+lastmod: date
+noobj: int
+addobj()
+delobj()

DOCUMENT
+name: string
+date: date
+lastmod: date
+sheets: int
+newsheet()
+save()
+print()
+delsheet()

SHEET
+name: string
+noofgrps: int
+created: date
+lastmod: date
+copy()
+paste()
+edit()
+addgrp()

Graphics Editor
+applicationname: string
+newdoc()
+opendoc()
+importdoc()
+exportdoc()
+deletedoc()

+made of   1   1

+consists of   1..*   1

has   1   *