**Project Synopsis**

**Of Computer Graphics**

**Project titled**

**“Mathematics is an Art”**

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**Introduction:**

The project “Mathematics is an art” is designed to ease the graphical representation of mathematic problems. The project is coded in ‘Python’ language to enhance the look and feel of GUI. Computer Software can be used for designing Mathematical concepts. In this project, we are going to address the skill of Mathematical Graphical representation using Computer.

Computers are now almost universally accepted in the Mathematics Community as a valuable tool for solving problems. With the help of Computer, learning basic graphs and understanding Mathematical concepts have become very simple. The idea is to make accurate graphs out of equations given in any form. The project aims at making learning entertaining process. Thereby making students understand the concept of algebra and coordinate geometry effectively.

**Purpose of project:**

The purpose of this project is to make students fall in love with mathematics. It is designed to learn mathematics a fun way! Project provides quick and reliable solutions to graphical problems. The project aims at accurately plotting the equations on a graph.

Aims and objectives:

* To increase accuracy of graphical solutions.
* To help teachers in teaching algebra.
* To minimize use of paper.
* To maximize interest of students in mathematics.

**Proposed System:**

The proposed system consists of a graph that shows basic graphical equation of line in slope point form or graphical equations.

It represents graph in such a way that it is entertaining for students. Besides, one can also plot the equation of their choice. Be it circle or hyperbola, parabola anything. Users have to select the equation of the choice and then set constant values accordingly.

**Description of Modules:**

The project has very large number of modules

**Hardware requirement:**

**Software requirement:**

* Python 2.7 or later version.
* Matplotlib library of Python

**Benefits of the system:**