Objectives of JSciCalc-

JSciCalc is a scientific calculator, with a large number of functions that are required by students of mathematics, science, engineering and many other streams, whether in school or college. It has been developed with the idea of keeping things simple, so it will not take much time for a newbie to understand its features, and things look exactly like they do in a hand-held scientific calculator. The real motivation for this project came when I felt that the default calculator in Windows was quite inadequate, and I wanted the calculator to provide support for drawing graphs. There were some softwares available on the Internet, but most of them were paid softwares, and only trial versions were available for free. Also there are some mathematical software tools that are better at drawing graphs, but I found them pretty complex

to understand !! This project is open-source and free, so any user can understand the code, and make modifications as he or she chooses.

Real time help has been provided, to reduce the task of checking out the help files. The calculator program has the functionality to be able to draw the graph of a function or expression, a feature which is very useful for students, as it saves a lot of time over tracing the curves of complex functions, which is without doubt a daunting task for many students. The graph also displays the coordinates of the points, and there are a number of scales provided for magnification. It looks exactly like a graph plotted on a graph paper. The buttons are large and spaced wide apart for convenience. The best part is students will feel right at home using this calculator right from day-1.

A number of matrix operations, like finding the inverse of a square matrix, and finding the determinant of a matrix, have been added as additional features. There is also a feature to solve simultaneous linear equations in two or three variables.

I hope this software will be of use to students, and further features will be added in due course of time…