ROOT-FINDER: TECHNICAL MANUAL

Contributions:

1.Aayush Patni

Developed the graph part of the program and helped in the documentation by providing screenshots.

2. Rohith Ravi

Helped in in-line documentation of the code.

Helped in developing the initial interface of the program.

Implemented the clear button of the program

3.Mayank Wadhwani

Made the user and technical documentation.

Helped in implementing the graph part of the program.

Did most of the coding part for most of the buttons.

Implemented the visualize, show answer, exit buttons.

Implemented the set precision buttons (radio buttons with possible values 0,3 and 6).

Checked invalid cases and inputs using error providers.

Made the next, previous and show answer buttons in the visualize function.

Implemented the tie delay part using timer in toolbox.

Developer guide of the root-finder

1)

The checking of valid inputs has been done by parse function. In case there is an error, it is shown by error providers.

There are three error providers, one for tick, one for warning and one for wrong input.

2)

The graph has been drawn by the chart utility of the toolbox.

The points are found out by a for loop and are marked on the graph.

3)

The sequential time delay has been given by timer utility of the toolbox.

Two timers have been used respectively in the visualize and the show answer part, one for each one.