

28 october 2014

9:40-10pm

looked into ways to plot graphs using gnuplot from c++

29 october 2014

2-3,8-10pm

looked into ways to plot graphs using gnuplot from terminal of ubuntu. learned command syntax but failed to get an output

5 november 2014

9-11 pm

Learned command syntax of command prompt in windows, and succeeded in plotting graphs of functions from command prompt in gnuplot.

6 november 2014

8-10pm

Tried giving commands to command prompt from c++ so that gnuplot can be accessed. Discovered "system()" function, managed to give single commands to prompt. By changing system variable "path" in control panel of computer to the gnuplot directory, could open gnuplot from c++ but couldn't give further commands to the same instance of command prompt.

15 november 2014

12 - 5 am

Discovered that multiple commands can be given to the same instance of command prompt by using ampersands between commands. Still couldn't control gnuplot through c++, no command after opening of gnuplot worked.

17 november 2014

3-5pm

Figured out that gnuplot doesn't work from multiple commands to prompt as it's a different type of command structure, the multiple commands are carried out once gnuplot is closed. Talked to a TA and came to know that i can use "gnuplot -e "command"" directly from command prompt to plot graphs without opening gnuplot. Also, discovered use of putting a "\" before a double inverted comma. Managed to plot graphs from C++. Couldn't pass variables through system function though.

18 november 2014

9-11pm

By using the string library, succeeded in sending variable strings to gnuplot from system function.

19 november 2014

3-3:30 pm

For some reason graphs are being shown only for a moment when using gnuplot -e function directly through prompt. No idea why. Finished writing code for the graph plotter function as a function with two parameters taking the function string and the number of dimensions in which graph has to be plotted.

21 november 2014

11-11:30

Tried setting an output file for the plot as plots are lasting for just a few moments. Had some problems in syntax which got cleared out after talking to TA.

9pm-12am

Learnt how to plot multiple graphs in the same window, and used the knowledge to write code to plot tangents and tangent planes.

22 november 2014

1-3 am

Linked fparser library and the code written for differentiation by a teammate to my code. Wrote a couple of functions to make using fparser easier, but for some reason it isn't working on my laptop.

2-4pm

Corrected some errors in my code for plotting tangents, and wrote a tiny little function to convert double to string quickly. Coded two functions to find minimum and maximum of a function in single dimension in a given range.

6-7 pm

Finally made fparser work!

24 november 2014

1-4 am

Tried out the functions which were using fparser. Corrected errors in the function to find root. Minima and maxima functions pose a problem because of bad handling of pointers. Tried to correct but not finished yet.