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**Final Programming Project Outline**

The aim of my final project will be to create a multi-purposeful calculator with graphing capabilities. The application will have simple operations such as addition, subtraction, multiplication, and division for simple expressions, as well as functions like sine, cosine, tangent, logarithm, exponents, and many more. The calculator should be able to evaluate these, outputting the answer underneath the original expression. It will also have number memory, and methods to clear or delete the expression window. The calculator will have a separate “graphing” function which will take an equation (in the form f(x) = equation), and output a graph next to the calculator. The user should be able to request the y-value at a specific x-value, and see a value of tables of the points graphed. If I have time, I would like to make the application able to scale the x and y axes to see more of the graph. When finished, the program should appear similar to the application “Desmos”, with certain features missing.

