Rusul Al Bawee Final Project

Project: Calculator

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**Introduction:**

Doing this project was a little difficult for me when I first started, I had no idea what it is that I wanted to do. I had thought of a few ideas but after I did research, I found that they were very difficult for me and I just could not do them with the amount of time I had. I have always struggled with using MATLAB and this is my first semester and first coding class, so I struggled a lot.

**Planning the Project:**

At the beginning I was thinking of making a graph and graphing certain data for something, another idea I came up with was a maze and a scientific calculator. These things are all fun and I really wanted to do them, but the only problem was they are very time consuming and take a lot of coding skills which at my level of knowledge I do not have. The easiest ideas were just a normal calculator which was recommend to me by the TA.

**Setting up project:**

The most fun and easiest part of this project for me was setting up how my calculator was going to look like. I could have customized it in so many ways and I could have added so many colors to it, the possibilities were endless. Of course, for this project I decided to keep it simple so I went with gray, but I will definitely be adding more customizations after I turn it in.

**Code:**

The code itself was not that difficult because when I set up my calculator in GUI and ran it half of the code was already done for me and all I had to do was just fill in information. The filling information part was not that easy I had to do a lot of research to know how I am supposed to fill it in. Eventually I did figure out how to do it, and the best part of this whole project was running the code and seeing that it works.

**What Will I Use GUI For in The Future?**

In the future I can think of many ways that I want to use GUI because the possibilities are endless, especially for my major because I will be taking a lot of MATLAB based classes so knowing how to use GUI is essential. One of the most exciting and fun ways I can think of using GUI is making a Tic tac toe game or a maze and many fun games like these that I really enjoy playing to this day. A way I can use GUI for future projects is using it to graph data for class or just data for any research that I might do in the future, I can think of many more ways that I can use MATLAB GUI for, but these are just simple things that come to mind.