Python Project report

Group 6 Team 6

IMT2020 529, 536, 539, 551.

**Abstract:**

This is a 3-Part device which consists of three separate modules linked together using a Main file. The Scientific Calculator which consists of all the basic mathematical operations and the option to convert Degrees to Radians. A Converter which converts units of length, area, temperature to name a few. And the Graphing Calculator which plots graphs based on the user-inputs.

**Introduction:**

We have used GitHub to collaborate on the project. The overall workload is split evenly among the team members.

Link: https://github.com/Anmol-S314/IIITB-Calculator-

We begin with the opening of the Main File which greets us with a “Hello” and the names of our Team. The ‘Start’ button initializes the program by taking us to the main page where we have our three calculator modules within a menu, each accessible with the click of a button.

**Demonstration:**

**A picture containing text, businesscard

Description automatically generated**

**Video demonstrating the functioning of the Device:**

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**References:**

<https://www.geeksforgeeks.org/standard-gui-unit-converter-using-tkinter-in-python/>

<https://github.com/bkthomps/GraphingCalculator>

<https://github.com/Stephen150/Simple-Scientific-Calculator>

<https://www.youtube.com/watch?v=yQSEXcf6s2I&list=PLCC34OHNcOtoC6GglhF3ncJ5rLwQrLGnV>

**Future aspect:**

To add extra fundamental units in our converter such as Time, Mass etc.

Statistical features such as the variance, mean of a distribution. The mode to add complex numbers. Take in multiple inputs to give us the result of a matrix multiplication as our inputs are single-line and limited in scope. The functionality to store inputs using the MR(Memory Recall). M+, M- two components which aid in the storage of our inputs.

We have a static and very limited scope of computation with the graphing calculator. An explore feature which might help us in traversing the graph and the option to Zoom-In and Zoom-Out would have made the experience more hands-on and interactive.