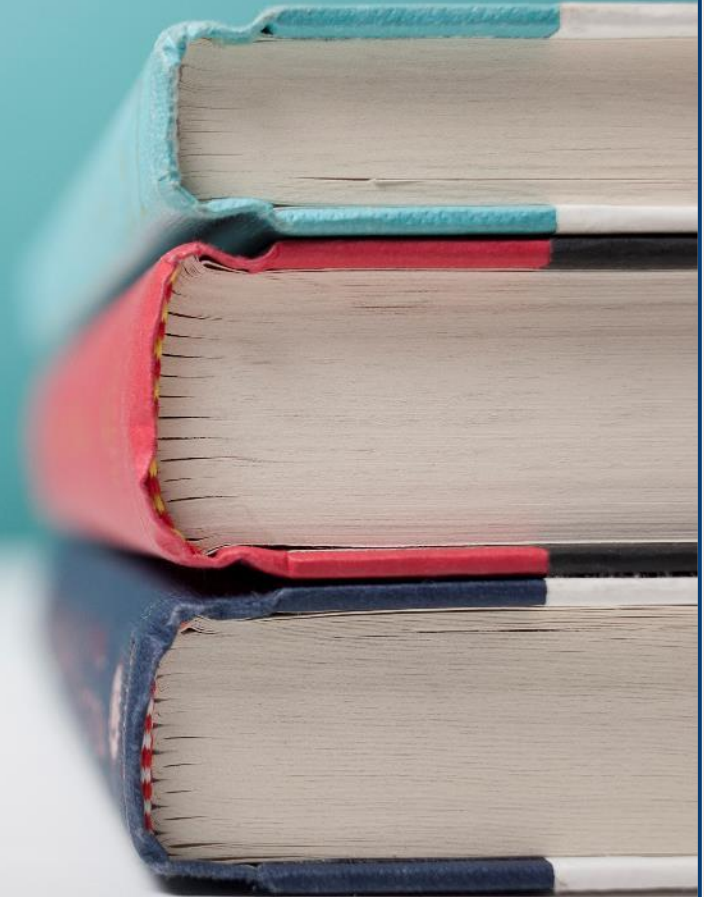
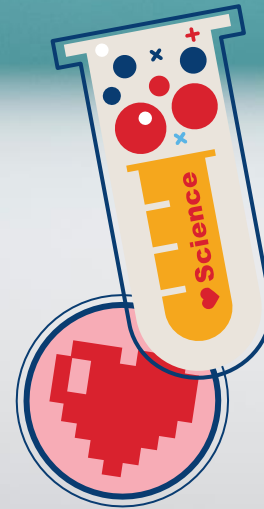




Pre Submission Report on

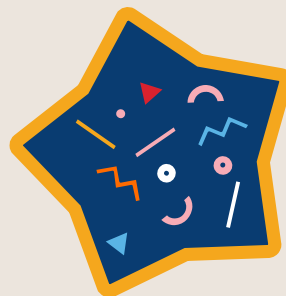
GUI Design For Scientific calculator





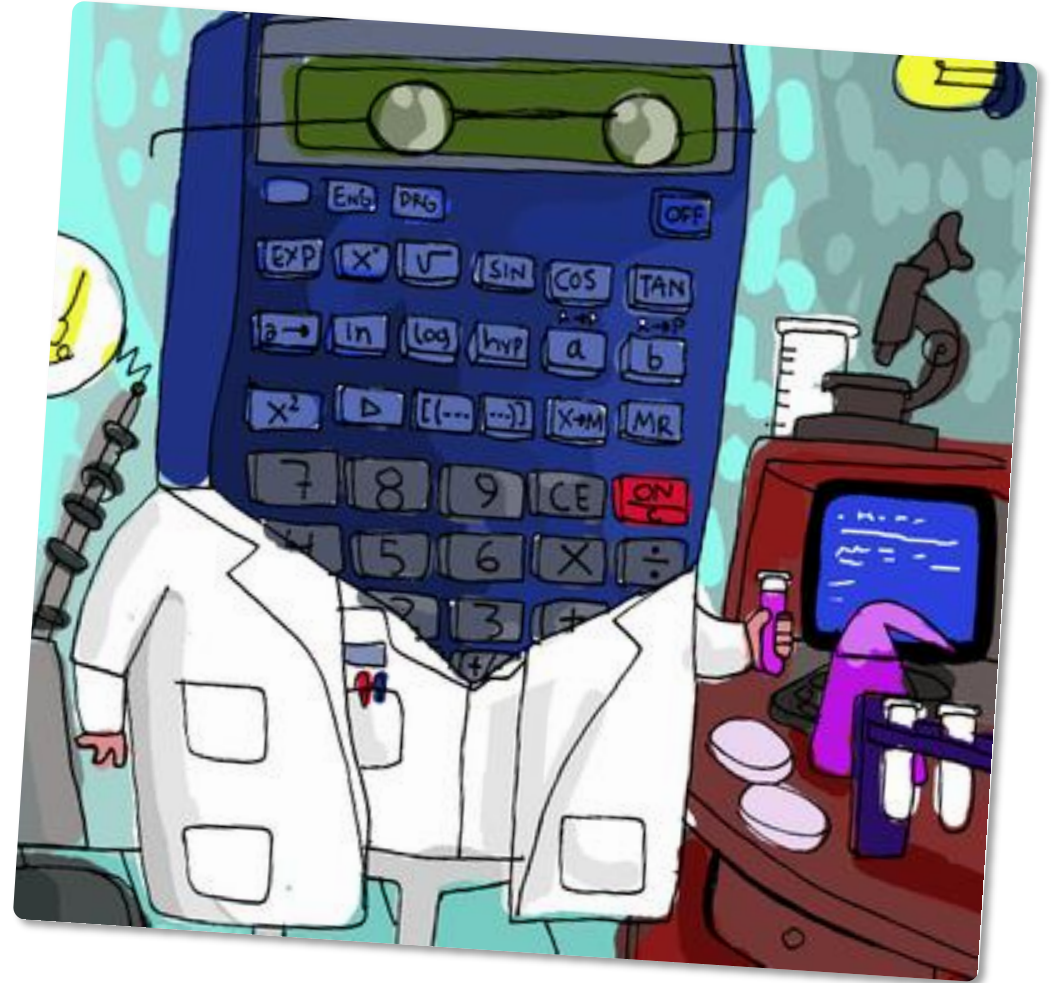
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Submitted By:- Swaraj, Sameer Ahmed Qureshi, Sai Gopi Reddy

- Registration no:- 12111470, 12019314, 12111402
- **Submitted To:- Navpreet Rupal**



Project Description

Design a Scientific calculator with proper GUI using python.



- The minimum requirement of GUI as follows:

Calculator

INPUT VALUE IN				Degree	Radians		
INV	Log	()	Clear		+	sqrt
sin	cos	Tan	7	8	9	-	%
asin	acos	atan	4	5	6	/	//
pow	exp	Abs	1	2	3	*	**
ceil	floor	,	0		.	=	



Introduction:-

- **In this project we are designing a GUI application for CGPA calculator for student using python programming language**

This calculator will be calculating problems in much vast scale than a normal calculator. First it will take input from user, suppose user gives the input $15^{**}6$ then the calculator will show the output 11390625. In the same way we can perform some basic trigonometric operations and some divisions, subtraction, multiplication and addition. We can perform many operations which are not possible in normal calculators.

This calculator will help students to do vast and lengthy calculations in easier way.

Calculations

- For example :- To calculate the value of A/B where $A=200$ and $B=3$.
- $A=200$
- $B=3$
- $A/B = 200/3$
- $A/B = (200/3) = 66.6666667$

Modules / Tools

- For designing this Scientific Calculator we are going we are going to use python libraries. 1:- Tkinter : Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter outputs the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.

- 2:-Math : use the functions of the same name from the math module if you require support for complex numbers. The distinction between functions which support complex numbers and those which don't is made since most users do not want to learn quite as much mathematics as required to understand complex numbers. Receiving an exception instead of a complex result allows earlier detection of the unexpected complex number used as a parameter, so that the programmer can determine how and why it was generated in the first place.

Work Division

Name Of The Student	Work done by the student
Swaraj	Made the whole frame that is the GUI using different widgets, string variables, buttons, colors, entry widgets and frames which are available in tkinter along with some logics.
Sameer Ahmed Qureshi	I will give the logics for fetching the values from the buttons on the entry widget along with some interface.
Sai Gopi Reddy	I will give the logics by if else statements and will check the errors and also I will help in debbuging if any error found.



Thank You

Swaraj
Sameer ahmed
Sai Gopi

