CPS MINI PROJECT

PROJECT – A Simple GUI Calculator.

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CSE-A

- I have made the calculator using python programming language and tkinter for GUI.
- Since I'm a beginner and new to programming languages and coding, I have made a very simple, easy to use calculator as per my present knowledge in this domain.
- learnings: I had to know all about GUI and cmds used for tkinter built-in module. I have made this calculator by creating a window space, input-entry screen, buttons and used functions for building the logic behind all the algebraic operators used in this calculator.
- Brief step wise codes and cmds used:

    - Imported tkinter python module which provides a graphical user interface to my calculator.
    - Created a window space for my calculator and gave title as "Sathvik's Calculator".
    - Created an entry screen using Entry command specifying width and border width and font.
    - Created columns and rows using grid function with specified length and breadth using padx and pady commands.
    - Created functions for pressing and printing selected numbers (button_click), erasing the inputs (button_clear), addition operator (button_add), subtraction operator (button_sub), multiplication operator (button_multiply), division operator (button_division), percentage operator (button_percent) and for calculating and printing the output based on the algebraic operations (button_equal).
    - Created buttons using Button function specifying row, column, length, breadth and used Lambda command so that the selected button (input number) could be displayed in the entry screen.
    - Used grid function for buttons with (Button.grid) command to align the buttons inn their respective positions.

- Since this is a simple calculator, I've used only +, -, x, ÷, % algebraic operators. Also I have no idea on how to pack the window, buttons and the entry screen so the drag window option for increasing or decreasing size of the calculator application will not work.
- Credits: YouTube – freecodecamp, code with harry.