GUI CALCULATOR

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Project Overview

- This is a graphical calculator built using Tkinter, Python's GUI toolkit.
- It supports basic arithmetic operations (+, -, *, /) with a responsive design.
- Designed with a sleek black theme to enhance user experience.
- Error handling ensures smooth functionality without crashes.
- The interface is intuitive, making it accessible for all users.

Key Features & Uniqueness

- ✓ Modern & Minimalist UI: A clean black theme with stylish buttons.
- ✓ **Dynamic Button Generation:** Ensures flexibility and compact design.
- ✓ Error Handling: Prevents application crashes due to invalid inputs.
- ✓ **Fixed Window Size:** Maintains a consistent layout for better usability.
- ✓ Efficient Performance: Optimized for speed and reliability.

Challenges & Learning Experience

Challenges Faced:

- Ensuring real-time updates in the display without lag.
- Managing **Tkinter layout constraints** while keeping the UI attractive.
- Handling invalid inputs and exceptions gracefully.
- ***** Lessons Learned:
- Enhanced problem-solving and debugging skills.
- Improved understanding of **event-driven programming in Tkinter**.
- Gained knowledge in UI/UX design principles for a better user experience.

• This project was a great learning experience, and I look forward to further improvements.

THANKYOU