

Advanced Calculator Application using Python and Tkinter

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Project Overview

- This project focuses on developing a calculator application using Python and Tkinter.
- The calculator will support basic arithmetic and advanced scientific calculations, including trigonometric and hyperbolic functions.

Objective

- To create an efficient, user-friendly calculator capable of performing advanced mathematical operations with a responsive graphical user interface.

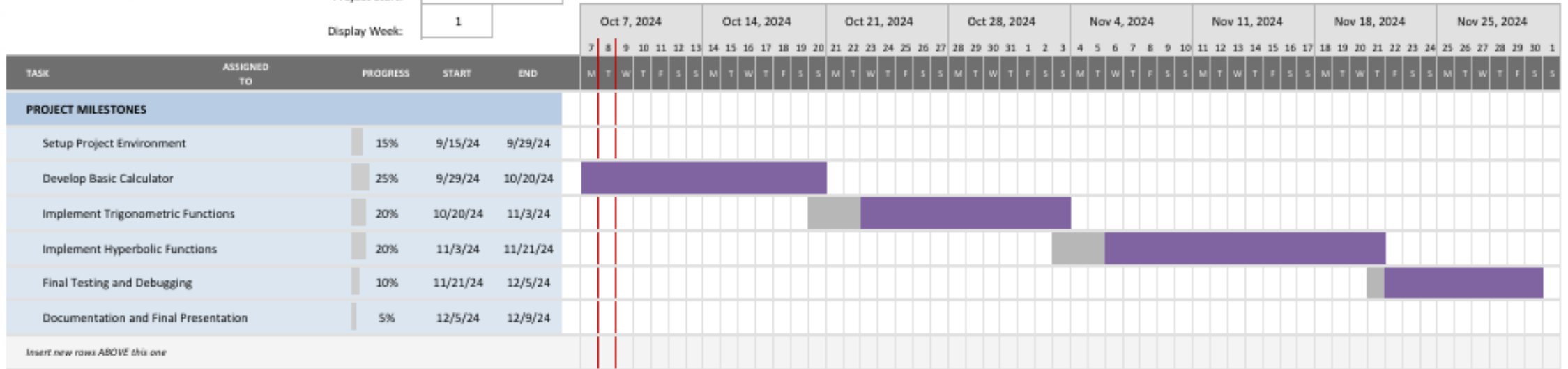
Project Goals

- **Basic Arithmetic:** Addition, subtraction, multiplication, division.
- **Advanced Calculations:** Support for COS, SIN, TAN, and hyperbolic functions.
- **User Interface:** Design a simple and responsive GUI for easy use.

Gantt Chart

CALCULATOR APP

Project Start:	Tue, 10/8/2024	
Display Week:	1	



Current Progress

- Developing: The basic calculator app (addition, subtraction, multiplication, and division).
- To be done: Trigonometric functions, hyperbolic functions, and error handling.

Remaining Tasks

- Implement Hyperbolic Functions
- Comprehensive Testing
- Error Handling and Input Validation

Challenges

- Challenge: Handling precision for scientific functions.
- Solution: Use Python's math library for accuracy.

Next Steps

- Complete Hyperbolic Functions
- Perform comprehensive testing
- Prepare final documentation and presentation

Conclusion

- This calculator application will provide both basic and advanced functionalities, catering to users with different needs.
- Future plans include adding logarithmic and exponential functions to enhance its utility.