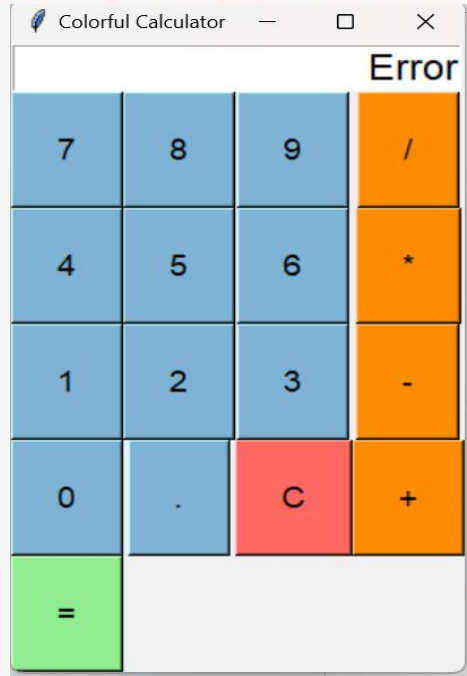


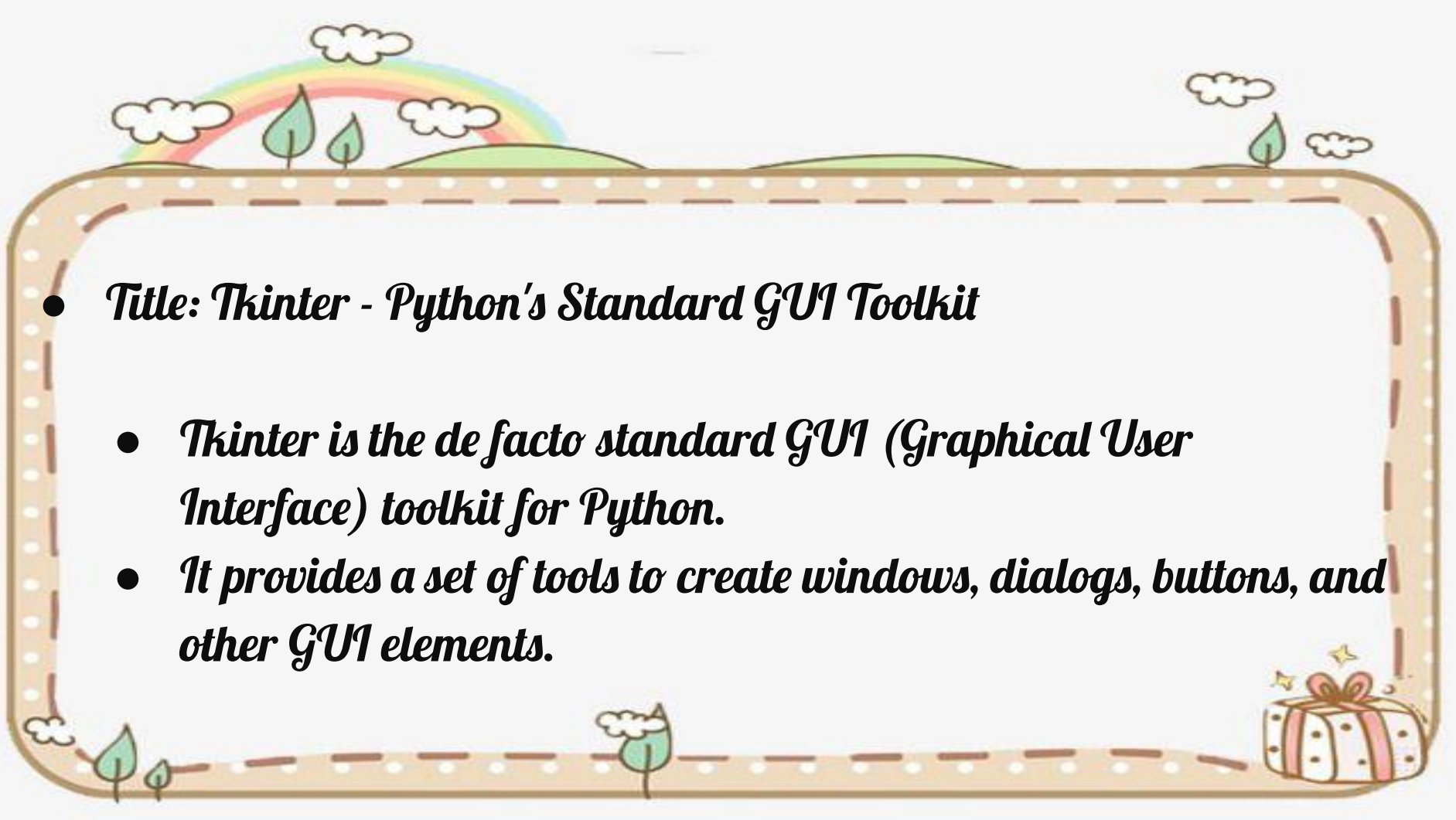


Objective

- *Objective: Learn how to build a visually appealing calculator with basic arithmetic functionality.*
- *Tools: Python programming language, Tkinter library.*

This is how my calculator looks like..



- 
- *Title: Tkinter - Python's Standard GUI Toolkit*
 - *Tkinter is the de facto standard GUI (Graphical User Interface) toolkit for Python.*
 - *It provides a set of tools to create windows, dialogs, buttons, and other GUI elements.*



Steps:

Import the Tkinter library.

Create the main window using `tk.Tk()`.

Set the window title.

Creating the Entry Widget

- *Objective: Display user input and calculation results.*
- *Steps:*

Create an Entry widget.

Set its width, font, and alignment.



Button Creation Function

- *Objective: Simplify button creation with a function.*

- *Steps:*

*Define a function create_button with parameters for row, column, text, color, and command.
Create buttons with specified properties.*

- *Objective: Define the arrangement of buttons.*

- *Steps:*

*Define button layout using a list of tuples with text and color.
Iterate through the list and create buttons accordingly.*



Objective: Implement button functionalities.

Steps:

- ***Define the on_click function to handle button clicks.***
- ***Evaluate expressions for numeric buttons and perform calculations for operators.***
- ***Display the result in the Entry widget.***

Run the Application

- ***Objective: Execute the calculator application.***
- ***Steps:***

Call `root.mainloop()` to start the Tkinter event loop.

Interact with the colorful calculator.





Conclusion

- *We've successfully created a colorful calculator using Python and Tkinter.*
- *Key Takeaways:*
 - *Tkinter simplifies GUI development in Python.*
 - *Customizable button layouts and functionalities enhance the user experience.*



Acknowledgement

Next Hikes resources

Google

Youtube

A decorative border surrounds the central text. At the top left, a rainbow arches over two green hills and three white clouds. At the top right, there are two more white clouds and a single green hill. At the bottom left, there are two green hills and one white cloud. At the bottom right, there is a gift box with a red ribbon and a yellow star. The border itself is a light brown color with a dashed line and small white dots.

THANK YOU!