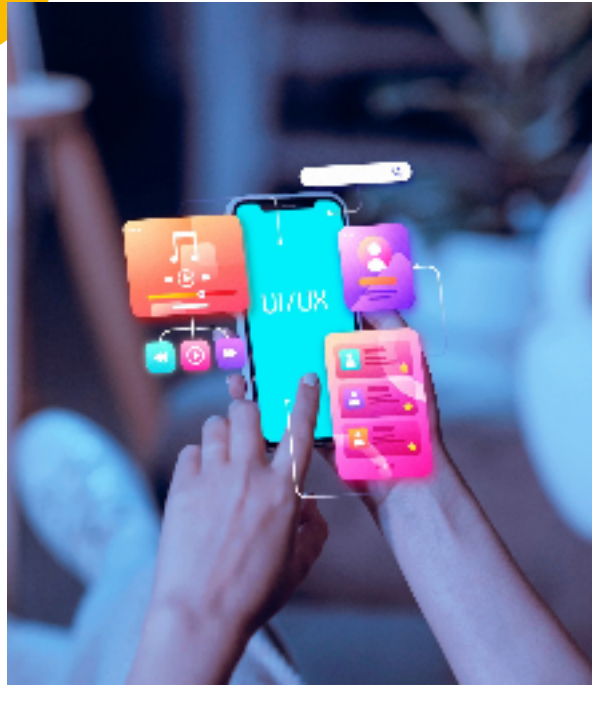
AGE CALCULATOR: SIMPLIFYING DATE CALCULATIONS WITH TKINTER AND PYTHON

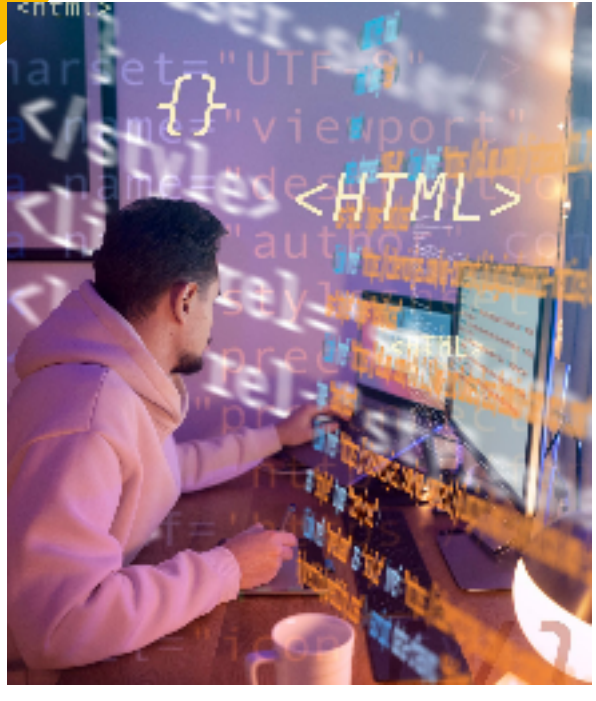
INTRODUCTION

Welcome to *Age Calculator* presentation. We will explore how to simplify date calculations using **Tkinter** and **Python**.



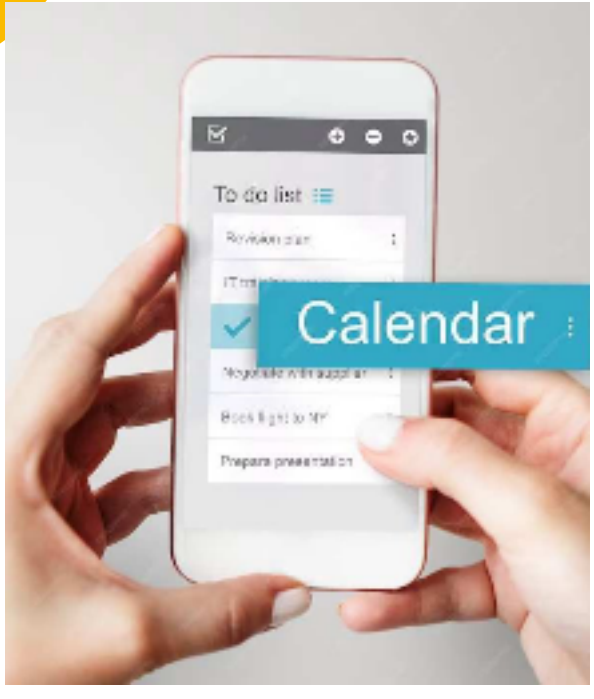
WHY USE TKINTER?

Using **Tkinter** for GUI development in Python provides a simple and efficient way to create interactive applications.



PYTHON'S DATE FUNCTIONS

Python's **datetime** module offers powerful functions for date and time calculations, making it ideal for age calculation applications.

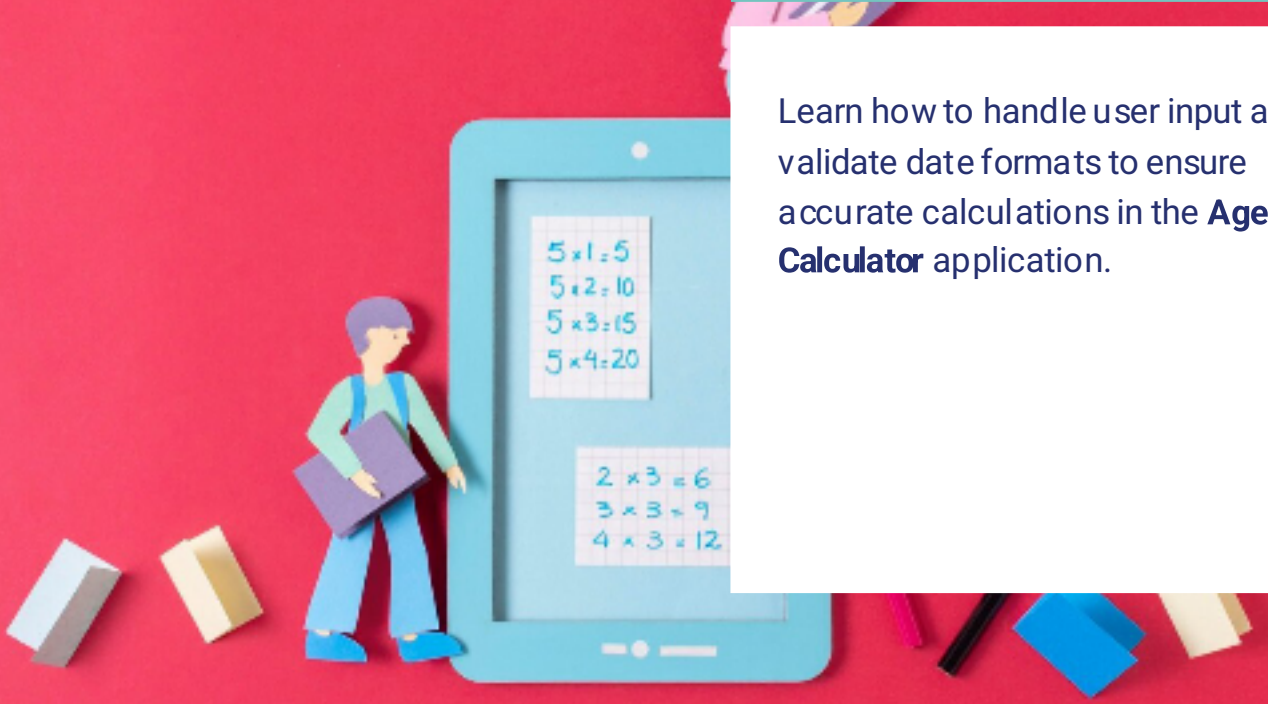


BUILDING THE AGE CALCULATOR

We will demonstrate how to build an **Age Calculator** using Tkinter for the user interface and Python for date calculations.

User Input and Validation

Learn how to handle user input and validate date formats to ensure accurate calculations in the **Age Calculator** application.

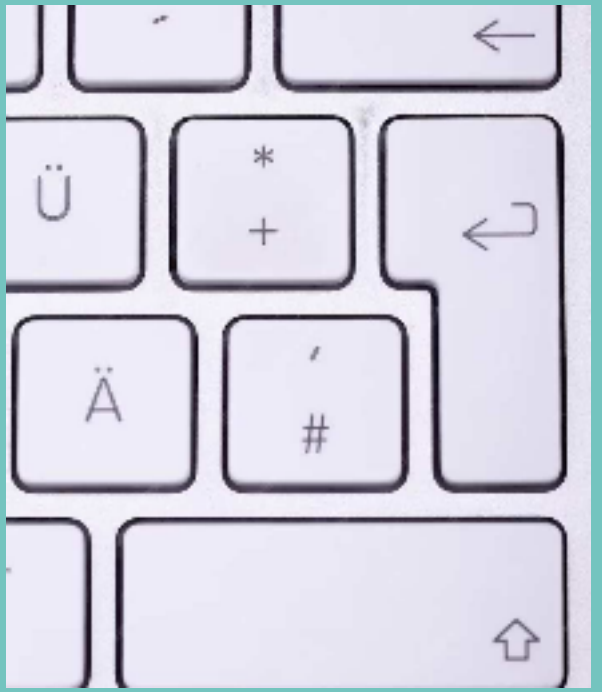


DISPLAYING RESULTS

Discover how to present the calculated age and additional date information in a clear and user-friendly format within the **Age Calculator** application.

ENHANCING USER EXPERIENCE

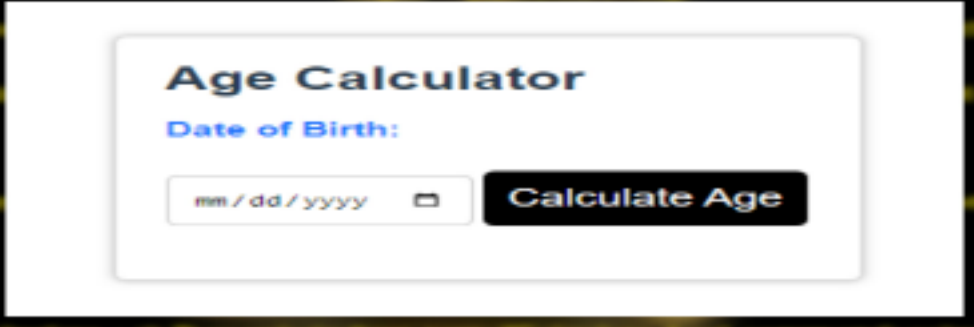
Explore techniques for enhancing the user experience by adding features such as error handling, tooltips, and keyboard shortcuts to the **Age Calculator** application.



CODE:

```
import tkinter as tk
from datetime import datetime

def calculate_age():
    birth_date = entry_birth_date.get()
    try:
        birth_date = datetime.strptime(birth_date, '%Y-%m-%d')
        today = datetime.now()
        age = today.year - birth_date.year - ((today.month, today.day) < (birth_date.month, birth_date.day))
        label_result.config(text=f"Your age is: {age} years")
    except ValueError:
        label_result.config(text="Invalid date format. Please use YYYY-MM-DD.")

window = tk.Tk()
window.title("Age Calculator")

label_instruction = tk.Label(window, text="Enter your birth date (YYYY-MM-DD):")
label_instruction.pack(pady=10)

entry_birth_date = tk.Entry(window)
entry_birth_date.pack(pady=10)

button_calculate = tk.Button(window, text="Calculate Age", command=calculate_age)
button_calculate.pack(pady=10)

label_result = tk.Label(window, text="")
label_result.pack(pady=10)

window.mainloop()
```

OUTPUT



CONCLUSION

In conclusion, we have learned how to simplify date calculations using Tkinter and Python to create an efficient and user-friendly Age Calculator application.

Thanks!

Do you have any questions?
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