Assignment

RLMCA369- Python Programming

Submitted To,

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Roll no:03

Age Calculating using Python Tkinter

Aim:

To design and implement a graphical user interface using Python's Tkinter library, allowing users to input their birth date and calculate their current age."

```python
import tkinter as tk
from tkinter import ttk
from datetime import datetime

def calculate_age():
    birth_date_str = date_entry.get()
    try:
        birth_date = datetime.strptime(birth_date_str, '%Y-%m-%d')
        today = datetime.today()
        age = today.year - birth_date.year - ((today.month, today.day) < (birth_date.month, birth_date.day))
        age_label['text'] = f'You are {age} years old!'
    except ValueError:
        age_label['text'] = 'Invalid Date Format. Please use YYYY-MM-DD'

# Create main window
root = tk.Tk()
root.title("Age Calculator")

# Add widgets
ttk.Label(root, text="Enter your birth date (YYYY-MM-DD):").grid(column=0, row=0, padx=10, pady=10)
date_entry = ttk.Entry(root)
date_entry.grid(column=1, row=0, padx=10, pady=10)
calculate_button = ttk.Button(root, text="Calculate Age", command=calculate_age)
calculate_button.grid(column=0, row=1, columnspan=2, pady=20)
age_label = ttk.Label(root, text="")
age_label.grid(column=0, row=2, columnspan=2, pady=10)

root.mainloop()
```

Output: