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import tkinter as tk
from tkinter import ttk

def calculate_percentile():
    try:
        rank = int(rank_entry.get())
        total_students = int(total_entry.get())

        if 1 <= rank <= total_students:
            percentile = ((total_students - rank + 1) / total_students) * 100
            result_label.config(text=f"Percentile: {percentile:.2f}%")
        else:
            result_label.config(text="Invalid rank")

    except ValueError:
        result_label.config(text="Please enter valid numbers")

# Create main window
window = tk.Tk(screenName="-display :0.0")
window.title("Percentile Calculator")

# Create and place widgets
rank_label = ttk.Label(window, text="Enter Rank:")
rank_label.grid(row=0, column=0, padx=10, pady=10, sticky="e")

rank_entry = ttk.Entry(window)
rank_entry.grid(row=0, column=1, padx=10, pady=10)

total_label = ttk.Label(window, text="Total Students:")
total_label.grid(row=1, column=0, padx=10, pady=10, sticky="e")

total_entry = ttk.Entry(window)
total_entry.grid(row=1, column=1, padx=10, pady=10)

calculate_button = ttk.Button(window, text="Calculate Percentile", command=calculate_percentile)
calculate_button.grid(row=2, column=0, columnspan=2, pady=10)

result_label = ttk.Label(window, text="")
result_label.grid(row=3, column=0, columnspan=2, pady=10)

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