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def elementwise_sum(tuples_list):
    if not tuples_list:
        return []

    result = [sum(x) for x in zip(*tuples_list)]
    return tuple(result)

# Original lists
tuples_list = [(1, 2, 3, 4), (3, 5, 2, 1), (2, 2, 3, 1)]

# Compute element-wise sum
sum_result = elementwise_sum(tuples_list)

# Print the result
print("Original lists:", tuples_list)
print("Element-wise sum of the said tuples:", sum_result)

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import tkinter as tk
from tkinter import ttk

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def change_background_color(color):
    root.configure(bg=color)

def create_menu():
    menubar = tk.Menu(root)

    color_menu = tk.Menu(menubar, tearoff=0)
    color_menu.add_command(label="Red", command=lambda: change_background_color("red"))
    color_menu.add_command(label="Green", command=lambda: change_background_color("green"))
    color_menu.add_command(label="Blue", command=lambda: change_background_color("blue"))

    menubar.add_cascade(label="Change Background Color", menu=color_menu)
    root.config(menu=menubar)

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root = tk.Tk()
root.title("Color Background Changer")

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create_menu()

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root.mainloop()

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