print("The purpose of this program is to calculate your monthly income and expenses.")

expenses = []

while True:

    try:

        monthly\_income = float(input("What is your monthly income: "))

        if 0 < monthly\_income < 10000:

            break

        else:

            print("Please enter an amount between 0 and 10,000")

    except ValueError:

        print("Invalid input. Please enter a numerical value.")

print(f"You entered {monthly\_income}")

while True:

    expense\_name = input("Enter the name of your expense (or type 'done' to finish): ")

    if expense\_name.lower() == "done":

        break

    try:

        expense\_cost = float(input(f"Enter the cost of {expense\_name}: "))

        expenses.append({"name":expense\_name, "cost": expense\_cost})

    except ValueError:

        print("Invalid input. Please enter a numerical value for the cost. ")

print("\nYour expenses: ")

total\_expenses = 0

for expense in expenses:

    print(f"{expense['name']}: ${expense['cost']:,.2f}")

    total\_expenses += expense['cost']

print(f"\nYour total expenses are ${total\_expenses:.2f} ")

if total\_expenses > monthly\_income:

    print("You have exceeded your monthly income! ")

else:

    income\_percentage = (total\_expenses / monthly\_income) \* 100

    print(f"You have spent {income\_percentage:.2f}% of your income.")

    print(f"Remaining income after expenses: ${monthly\_income - total\_expenses:.2f}")

print("Code by TJ Waldie")



