class Item:

def \_\_init\_\_(self, value, weight):

self.value = value

self.weight = weight

def fractional\_knapsack(items, capacity):

items.sort(key=lambda x: x.value / x.weight, reverse=True)

total\_value = 0.0

for item in items:

if capacity >= item.weight:

capacity -= item.weight

total\_value += item.value

else:

total\_value += item.value \* (capacity / item.weight)

break

return total\_value

n = int(input("Enter number of items: "))

items = []

for i in range(n):

value = float(input(f"Enter value of item {i+1}: "))

weight = float(input(f"Enter weight of item {i+1}: "))

items.append(Item(value, weight))

capacity = float(input("Enter knapsack capacity: "))

max\_value = fractional\_knapsack(items, capacity)

print("Maximum Value in Knapsack =", max\_value)