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#Assignmentno: DAA-3

def fractional\_knapsack():

weights = [10, 20, 30]

values = [60, 100, 120]

capacity = 50

total\_value = 0

items = sorted(zip(weights, values), key=lambda x: x[1] / x[0], reverse=True)

for weight, value in items:

if capacity == 0:

break

if weight <= capacity:

total\_value += value

capacity -= weight

else:

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

capacity = 0

print(int(total\_value))

if \_\_name\_\_ == "\_\_main\_\_":

fractional\_knapsack()

60

160

240