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Program:
# Class to represent an item in the Knapsack
class Item:
  def __init__(self, value, weight):
    self.value = value
    self.weight = weight
    self.ratio = value / weight
# Function to solve the Fractional Knapsack problem using Greedy strategy
def fractional_knapsack(capacity, items):
  # Sort items by value-to-weight ratio in decreasing order
  items.sort(key=lambda x: x.ratio, reverse=True)
  total_value = 0 # Total value of knapsack
  for item in items:
    if capacity >= item.weight:
       # If the item can be fully taken, take it
       capacity -= item.weight
      total_value += item.value
    else:
      # Take the fraction of the remaining item
       total_value += item.value * (capacity / item.weight)
       break
  return total_value
# Input
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n = int(input("Enter the number of items: "))

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

items = []

for i in range(n):

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weight = int(input(f"Enter weight of item {i+1}: "))
items.append(Item(value, weight))

capacity = int(input("Enter the capacity of the knapsack: "))

# Perform the greedy strategy to solve the knapsack problem
max_value = fractional_knapsack(capacity, items)
print(f"Maximum value in Knapsack = {max_value}")

Output:
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\katur\Music\DAA practicals> & C:\Users/katur\AppData\Local/Programs/Python/Python312/python.exe "c:\Users/katur\Music\DAA practicals/practical5..py"
Enter the number of items: 3
Enter value of item 1: 60
Enter weight of item 1: 10
Enter value of item 2: 100
Enter weight of item 2: 20
Enter value of item 3: 120
Enter weight of item 3: 30
Enter the capacity of the knapsack: 50
Maximum value in Knapsack = 240.0

PS C:\Users\katur\Music\DAA practicals>
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