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Assignment 3
# Structure for an item which stores weight and
# corresponding value of Item
class Item:
  def __init__(self, value, weight):
     self.value = value
     self.weight = weight
# Main greedy function to solve problem
def fractionalKnapsack(W, arr):
  # Sorting Item on basis of ratio
  arr.sort(key=lambda x: (x.value/x.weight), reverse=True)
  # Result(value in Knapsack)
  finalvalue = 0.0
  # Looping through all Items
  for item in arr:
     # If adding Item won't overflow,
     # add it completely
     if item.weight <= W:
       W -= item.weight
       finalvalue += item.value
     # If we can't add current Item,
     # add fractional part of it
     else:
       finalvalue += item.value * W / item.weight
       break
  # Returning final value
  return finalvalue
# Driver Code
if __name__ == "__main__":
  W = 50
  arr = [Item(60, 10), Item(100, 20), Item(120, 30)]
  # Function call
  max_val = fractionalKnapsack(W, arr)
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print(max_val)
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Output:

