#fractional Knapsack problem

```
class Item:
  def __init__(self, value, weight):
    self.value = value
    self.weight = weight
def fractionalKnapsack(W, arr):
  arr.sort(key=lambda x: x.value / x.weight, reverse=True)
  final_value = 0.0
  for item in arr:
    if item.weight <= W:
      W -= item.weight
      final_value += item.value
    else:
      final_value += item.value * W / item.weight
      break
  return final_value
if __name__ == "__main__":
  W = 50
  arr = [Item(60, 10), Item(100, 20), Item(120, 30)]
  max_val = fractionalKnapsack(W, arr)
  print("Maximum value we can obtain =", int(max_val))
```