**Fractional Knapsack**

class Item:

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

self.profit = profit

self.weight = weight

def fractionalKnapsack(W, arr):

arr.sort(key=lambda x: (x.profit/x.weight), reverse=True)

finalvalue = 0.0

# Looping through all Items

for item in arr:

if item.weight <= W:

W -= item.weight

finalvalue += item.profit

else:

finalvalue += item.profit \* W / item.weight

break

return finalvalue

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

W = 50

arr = [Item(60, 10), Item(100, 20), Item(120, 30)]

max\_val = fractionalKnapsack(W, arr)

print("Maximum value obtained is : ",max\_val)