**0/1 Knapsack**

def knapSack(W, wt, val, n):

K = [[0 for x in range(W + 1)] for x in range(n + 1)]

for i in range(n + 1):

for w in range(W + 1):

if i == 0 or w == 0:

K[i][w] = 0

elif wt[i-1] <= w:

K[i][w] = max(val[i-1] + K[i-1][w-wt[i-1]], K[i-1][w])

else:

K[i][w] = K[i-1][w]

return K[n][W]

val = [50,100,150,200]

wt = [8,16,32,40]

W = 64

n = len(val)

print("Maximum Value obtained is : ")

print(knapSack(W, wt, val, n))