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#Assignmentno: DAA-4

def solve\_knapsack():

val = [50, 100, 150, 200]

wt = [8, 16, 32, 40]

W = 64

n = len(val)

def knapsack(W, n):

if n == 0 or W == 0:

return 0

if wt[n-1] > W:

return knapsack(W, n-1)

else:

return max(

val[n-1] + knapsack(W - wt[n-1], n-1),knapsack(W, n-1)

)

print(knapsack(W, n))

solve\_knapsack()

350