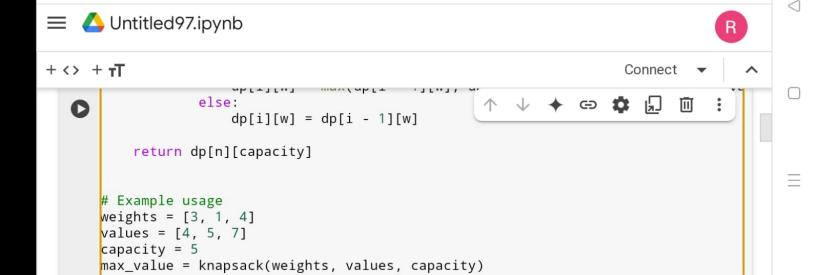
```
■ Untitled97.ipynb
        Rename notebook
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      def knapsack(weights, values, capacity):
          n = len(weights)
          dp = [[0] * (capacity + 1) for in range(n + 1)]
          # Build the DP table
          for i in range(1, n + 1):
              for w in range(1, capacity + 1):
                  if weights[i - 1] <= w:</pre>
                      dp[i][w] = max(dp[i - 1][w], dp[i - 1][w - weights[i - 1]] + va
                  else:
                      dn[i][w] = dn[i - 1][w]
```



values = [4, 5, 7] capacity = 5 \_^ ↓ **→** 😊 💠 🗓 🔟 : | max\_value = knapsack(weights, values, capacity) print("Maximum value achievable:", max\_value) → Maximum value achievable: 12