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In [51]:  '''
          1. You have given a Python list. Write a program to find value 20 in the list, and if it is present, replace it
          Given input : list1 = [5, 10, 15, 20, 25, 50, 20]
          Expected output: [5, 10, 15, 200, 25, 50, 20]
          '''
          list1 = [5, 10, 15, 20, 25, 50, 20]
          #Step 1 : Get the index of the item 20 from the list1, only the first occurance
          index = list1.index(20)

          #Step 2 : Replace the value at the index
          list1[index] = 200
          print(list1)

          [5, 10, 15, 200, 25, 50, 20]

In [54]:  '''
          2. Given a Python list, write a program to remove all
          occurrences of item 20.

          Given input : list1 = [5, 20, 15, 20, 25, 50, 20]

          Expected output:[5, 15, 25, 50]
          '''

          #Step 1: Use list comprehension to remove all the occurences of item 20.
          list1 = [5, 10, 15, 20, 25, 50, 20]
          x=[i for i in list1 if i!=20]
          print(x)

          [5, 10, 15, 25, 50]

In [56]:  '''
          3. Given a two Python list. Write a program to iterate both lists simultaneously and display items from list1 i

          Given input :
          list1 = [10, 20, 30, 40]
          list2 = [100, 200, 300, 400]

          Expected output:
          10 400
          20 300
          30 200
          40 100
          '''
          #Step 1: Reverse list2
          list1 = [10, 20, 30, 40]
          list2 = [100, 200, 300, 400]
          list2 = list2[::-1]

          #Step 2: Traverse the two lists and print the expected output
          for i in range(0,len(list1)):
              for j in range(0,len(list2)):
                  if(j==i):
                      print(list1[i],list2[j])
                      break

          10 400
          20 300
          30 200
          40 100

In [ ]:
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