**Exercise 1: Reverse a given list in Python**

aLsit = [100, 200, 300, 400, 500]

**Expected output:**

[500, 400, 300, 200, 100]

**Exercise 2: Concatenate two lists index-wise**

**Given**:

list1 = ["M", "na", "i", "Ke"]

list2 = ["y", "me", "s", "lly"]

**Expected output:**

['My', 'name', 'is', 'Kelly']

**Exercise 3: Given a Python list of numbers. Turn every item of a list into its square**

**Given**:

aList = [1, 2, 3, 4, 5, 6, 7]

**Expected output:**

[1, 4, 9, 16, 25, 36, 49]

**Exercise 4: Concatenate two lists in the following order**

list1 = ["Hello ", "take "]

list2 = ["Dear", "Sir"]

**Expected output:**

['Hello Dear', 'Hello Sir', 'take Dear', 'take Sir']

**Exercise 5: Given a two Python list. Iterate both lists simultaneously such that list1 should display item in original order and list2 in reverse order**

**Given**

list1 = [10, 20, 30, 40]

list2 = [100, 200, 300, 400]

**Expected output:**

10 400

20 300

30 200

40 100

**Exercise 6: Add item 7000 after 6000 in the following Python List**

**Given**:

list1 = [10, 20, [300, 400, [5000, 6000], 500], 30, 40]

**Expected output:**

[10, 20, [300, 400, [5000, 6000, 7000], 500], 30, 40]