1. Python – Join Tuples if similar initial element

def join\_tuples(tuples\_list):

result = []

current\_tuple = tuples\_list[0]

for tup in tuples\_list[1:]:

if current\_tuple[0] == tup[0]:

current\_tuple += tup[1:]

else:

result.append(current\_tuple)

current\_tuple = tup

result.append(current\_tuple)

return result

# Example usage

my\_tuples = [(1, 'a'), (1, 'b'), (2, 'c'), (3, 'd'), (3, 'e')]

joined\_tuples = join\_tuples(my\_tuples)

print(joined\_tuples) # Output: [(1, 'a', 'b'), (2, 'c'), (3, 'd', 'e')]

1. Python – Extract digits from Tuple list

def join\_tuples(tuples\_list):

result = []

current\_tuple = tuples\_list[0]

for tup in tuples\_list[1:]:

if current\_tuple[0] == tup[0]:

current\_tuple += tup[1:]

else:

result.append(current\_tuple)

current\_tuple = tup

result.append(current\_tuple)

return result

# Example usage

my\_tuples = [(1, 'a'), (1, 'b'), (2, 'c'), (3, 'd'), (3, 'e')]

joined\_tuples = join\_tuples(my\_tuples)

print(joined\_tuples) # Output: [(1, 'a', 'b'), (2, 'c'), (3, 'd', 'e')]

1. Python – All pair combinations of 2 tuples

from itertools import product

def all\_pair\_combinations(tuple1, tuple2):

combinations = list(product(tuple1, tuple2))

return combinations

# Example usage

tuple1 = (1, 2)

tuple2 = ('a', 'b', 'c')

pair\_combinations = all\_pair\_combinations(tuple1, tuple2)

print(pair\_combinations) # Output: [(1, 'a'), (1, 'b'), (1, 'c'), (2, 'a'), (2, 'b'), (2, 'c')]

1. Python – Remove Tuples of Length K

def remove\_tuples\_of\_length\_k(tuples\_list, k):

filtered\_list = [tup for tup in tuples\_list if len(tup) != k]

return filtered\_list

# Example usage

my\_tuples = [(1, 2), (3, 4, 5), (6, 7), (8, 9, 10)]

k = 2

filtered\_tuples = remove\_tuples\_of\_length\_k(my\_tuples, k)

print(filtered\_tuples) # Output: [(3, 4, 5), (8, 9, 10)]

1. Sort a list of tuples by second Item

def sort\_tuples\_by\_second\_item(tuples\_list):

sorted\_list = sorted(tuples\_list, key=lambda x: x[1])

return sorted\_list

# Example usage

my\_tuples = [('a', 3), ('b', 2), ('c', 1)]

sorted\_tuples = sort\_tuples\_by\_second\_item(my\_tuples)

print(sorted\_tuples) # Output: [('c', 1), ('b', 2), ('a', 3)]

1. Python program to Order Tuples using external List
2. Python – Flatten tuple of List to tuple
3. Python – Convert Nested Tuple to Custom Key Dictionary
4. Python Program for Binary Search (Recursive and Iterative)
5. Python Program for Linear Search
6. Python Program for Insertion Sort