Given two lists, l1 and l2, write a program to create a third list l3 by picking an odd-index element from the list l1 and even index elements from the list l2? # l1 = [3, 6, 9, 12, 15, 18, 21] # l2 = [4, 8, 12, 16, 20, 24, 28] # odd_i = [] # even_i = [] # for i in range(0, len(l1)): # if i % 2!=0: # odd_i.append(l1[i]) # print(odd_i) # for i in range(0,len(l2)): # if i % 2==0: # even_i.append(l2[i]) # print(even_i) # l3 = odd_i + even_i # print(l3) # ---------- # Write a program to remove the item present at index 4 and add it to the 2nd position and at the end of the list. # list1 = [34, 54, 67, 89, 100, 43, 94] # list1.pop(4) # print(list1) # list1.insert(2,11) # print(list1) # list1.insert(len(list1),11) # print(list1) # ---------- # Slice list into 3 equal chunks and reverse each chunk # sample_list = [11, 45, 8, 23, 14, 12, 78, 45, 89] # def divide_chunks(l, n): # for i in range(0, len(l), n): # yield l[i:i + n] # n=3 # x = list(divide_chunks(sample_list,n)) # print("Chunk_1",x[0]) # print(x[0][::-1]) # print("Chunk_2",x[1]) # print(x[1][::-1]) # print("Chunk_3",x[2]) # print(x[2][::-1]) # ---------- # Write a program to iterate a given list and count the occurrence of each element and create a dictionary to show the count of each element. # sample_list = [11, 45, 8, 11, 23, 45, 23, 45, 89] # Create a dictionary to store the count of each element. # sample_dict = {} # for i in sample_list: # if i in sample_dict: # sample_dict[i] += 1 # else: # sample_dict[i] = 1 # print(sample_dict) # ---------- #Find the intersection (common) of two sets and remove those elements from the first set. # first_set = {23, 42, 65, 57, 78, 83, 29} # second_set = {57, 83, 29, 67, 73, 43, 48} # intersection = first_set.intersection(second_set) # print(intersection) # ---------- # Checks if one set is a subset or superset of another set. If found, delete all elements from that set # first_set = {27, 43, 34} # second_set = {34, 93, 22, 27, 43, 53, 48} # print("First set is subset of second set",first_set.issubset(second_set)) # print("Second set is subset of First set",second_set.issubset(first_set)) # print("First set is superset of second set",first_set.issuperset(second_set)) # print("Second set is superset of First set",second_set.issuperset(first_set)) # ---------- # Iterate a given list and check if a given element exists as a key’s value in a dictionary. If not, delete it from the list. roll_number = [47, 64, 69, 37, 76, 83, 95, 97] sample_dict = {'Jhon':47, 'Emma':69, 'Kelly':76, 'Jason':97} for roll in roll_number: if roll not in sample_dict: roll_number.remove(roll) print(roll_number)