l1 = [1,2,3,4,5,6]

el = []

ol = []

for i in l1:

if i % 2 == 0 :

el.append(i)

else:

ol.append(i)

print("even list =",el)

print("odd list =",ol)



l1 = [3,6,4,9]

l2 = [1,2,7,8]

print("list 1 =",l1)

print("list 2 =",l2)

ml = l1 + l2

print("merged lists =",ml)

ml.sort()

print("sorted merged list =",ml)



lol = [["sachin",10,150],["virat",18,180],["dhoni",7,200]]

for i in range(len(lol)):

mi = i

for j in range(i+1,len(lol)):

if lol[j][1] < lol[mi][1]:

mi = j

lol[i], lol[mi] = lol[mi], lol[i]

print(lol)



l1 = [12,24,36,32,14,26,99,35,89,31]

for i in range(0,len(l1)):

for j in range(i+1, len(l1)):

if l1[j] < l1[i]:

l1[j], l1[i] = l1[i], l1[j]

print("Second largest = ",l1[-2])



l1 = [[1,2,3],[1,2,3,4],[1,2],[1]]

l1.sort(key=len)

print("Sorted by length =", l1)



list1 = [1, 2, 3, 4, 5]

list2 = [4, 5, 6, 7, 8]

print("List 1 =", list1)

print("List 2 =", list2)

lists\_union = list(set(list1) | set(list2))

print("Union of the two lists =", lists\_union)



list1 = [1, 2, 3, 4, 5]

list2 = [4, 5, 6, 7, 8]

print("List 1 =", list1)

print("List 2 =", list2)

lists\_intersection = list(set(list1) & set(list2))

print("Intersection of the two lists =", lists\_intersection)



num = 100

for i in range(10):

if i % 2 == 0:

for j in range(10):

print(num, end=" ")

num -= 1

else:

start = num - 9

for j in range(start, num + 1):

print(j, end=" ")

num -= 10

print()