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# Question 1
import math
def addNumber(*args):
    sum = 0
    for i in args:
        sum += i
    print(sum)

# Question 2
def splitList(mylist=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14], n=5):
    finalList = []
    count = 0
    startIndex = 0
    for i in range(len(mylist)):
        if count < n - 1 and i < len(mylist) - 1:
            count += 1
        else:
            finalList.append(mylist[startIndex:startIndex + count + 1])
            count = 0
            startIndex = i + 1
    print(finalList)

# Question 3
def addTwoLists(namelist=['city', 'maruti', 'MG'],
surname=['honda', 'suzuki', 'Hector']):
    finalList = []
    for i in range(len(namelist)):
        finalList.append([namelist[i] + " " + surname[i]])
    print(finalList)

# Question 4
def oddEvenPrime(input=[3,6,7,11,91,97,54,22,63]):
    input = iter(input)

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oddList = []
evenList = []
primeList= []

for i in input:
    if i%2==0:
        if i == 2:
            primeList.append(i)
        evenList.append(i)
    else:
        oddList.append(i)
        flag = True
        for j in range(2,math.floor(math.sqrt(i))):
            if i%j==0:
                flag = False
                break
            else:
                flag = True

        if flag:
            primeList.append(i)

print(oddList,evenList,primeList)

# Function Calls

addNumber(1, 2, 3, 4, 5, 6, 7, 8, 9)
splitList()
addTwoLists()
oddEvenPrime()
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