groupA = ['Aman', 'Anand', 'Omkar', 'prathamesh']

groupB = ['Aman', 'Anand', 'Omkar', 'Abhi']

groupC = ['Shubham','Anand', 'Vedant','Ajinkya']

lena=len(groupA)

lenb=len(groupB)

print(" list of Students who play both cricket and badminton")

resultlistCB = [];

for i in range(lenb):

for var in range(lena):

if(groupB[i]==groupA[var]):

resultlistCB.append(groupB[i]);

break;

print(resultlistCB)

print(" list of Students who play either cricket or badminton but not both")

resultlistCBN = [];

flag = 0;

if lena < lenb:

for i in range(lenb):

for var in range(lena):

if (groupB[i] == groupA[var]): #same

flag = 1;

if (flag == 0):

resultlistCBN.append(groupB[i]); #add different

flag = 0;

else:

for i in range(lena):

for var in range(lenb):

if (groupA[i] == groupB[var]):

flag = 1;

if (flag == 0):

resultlistCBN.append(groupA[i]);

flag = 0;

print(resultlistCBN)

print("Number of students who play neither cricket nor badminton")

resultlistCBNF = [];

lenc=len(groupC)

for i in range(lenc):

for var in range(lena):

if(groupC[i]==groupA[var]):

flag=1;

break;

for var1 in range(lenb):

if(groupC[i]==groupB[var]):

flag=1;

break;

if(flag==0):

resultlistCBNF.append(groupC[i]);

flag=0;

print(resultlistCBNF);

lena=len(groupA)

lenc=len(groupC)

print(" list of Students who play cricket and football but not badminton")

resultlistCF=[]

for i in range(lenc):

for var in range(lena):

if(groupC[i]==groupA[var]):

resultlistCF.append(groupC[i]);

break;

resultlistNB = [];

flag = 0;

lencf=len(resultlistCF)

for i in range(lencf):

for var in range(lenb):

if (resultlistCF[i] == groupB[var]):

flag = 1;

break;

if (flag == 0):

resultlistNB.append(resultlistCF[i])

flag = 0;

print(resultlistNB)