#list of students who play both cricket and batminton

cricket=[]                                      #taking input from user for cricket

a1=input("write name of people who likes cricket with comma:")

b1=a1.split(",")

for i in b1:

    cricket.append(i)

batminton=[]                                    #taking input from user for batminton

a2=input("write name of people who likes batminton with comma:")

b2=a2.split(",")

for j in b2:

    batminton.append(j)

print(cricket)

print(batminton)

list=[]

for f in cricket:

    for g in batminton:

        if f==g:

            list.append(f)

print("list of students who play both cricket and batminton is:",list)

#list of students who play eithor cricket or batminton,but not both.

cricket=[]                                      #taking input from user for cricket

a1=input("write name of sudents who likes cricket with comma:")

b1=a1.split(",")

for i in b1:

    cricket.append(i)

batminton=[]                                    #taking input from user for batminton

a2=input("write name of students who likes batminton with comma:")

b2=a2.split(",")

for j in b2:

    batminton.append(j)

print(cricket)

print(batminton)

list=[]

for f in cricket:

    if f not in batminton:

        list.append(f)

for g in batminton:

    if g not in cricket:

         list.append(g)

print("students who play eithor cricket or batminton,but not both.",list)

#list of students who play niether cricket nor batminton

univers\_list=[]                                      #taking input from user for universal list

a1=input("write name of students in universal list with comma:")

b1=a1.split(",")

for i in b1:

    univers\_list.append(i)

cricket=[]                                      #taking input from user for cricket

a2=input("write name of students who likes cricket with comma:")

b2=a2.split(",")

for j in b2:

    cricket.append(j)

batminton=[]                                    #taking input from user for batminton

a3=input("write name of students who likes batminton with comma:")

b3=a3.split(",")

for h in b3:

    batminton.append(h)

print(univers\_list)

print(cricket)

print(batminton)

list=[]

for f in univers\_list:

        if f not in cricket:

             if f not in batminton:

                 list.append(f)

print("students whon neither play cricket nor batminton are",list)

#list of students who play both cricket and football,but not batminton

univers\_list=[]                                 #taking input from user for universal list

a1=input("write name of students in universal list with comma:")

b1=a1.split(",")

for i in b1:

    univers\_list.append(i)

cricket=[]                                      #taking input from user for cricket

a2=input("write name of students who likes cricket with comma:")

b2=a2.split(",")

for j in b2:

    cricket.append(j)

batminton=[]                                    #taking input from user for batminton

a3=input("write name of students who likes batminton with comma:")

b3=a3.split(",")

for k in b3:

    batminton.append(k)

football=[]                                     #taking input from user for football

a4=input("write name of students who likes football with comma:")

b4=a4.split(",")

for l in b4:

    football.append(l)

list=[]

for f in univers\_list:

    if f not in batminton:

        list.append(f)

print("students who play cricket and football, but not batminton are",list)