# Roll No :- 2174

#Ashish Waghmode

A=['Aman', 'Raj', 'Atharva', 'Ruchi'] #student who play cricket

B=['Aman', 'Saloni', 'Aditya', 'Ayush', 'Atharva'] #student who play Badminton

C=['Raj','Ruchi', 'Vedant','Atharva'] #student who play football

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

a= set(A)

b= set(B)

print(a & b)

print("\nList of students who play either cricket or badminton but not both ")

lst1=[]

for i in A:

if i not in B:

lst1.append(i)

for i in B:

if i not in A:

lst1.append(i)

print(lst1)

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

lst2=[]

for i in C:

if i not in A:

if i not in B:

lst2.append(i)

print(lst2)

print("\nNumber of students who play cricket and football but not badminton.")

lst3=[]

for i in C:

if i not in B:

lst3.append

for i in A:

if i not in B:

lst3.append(i)

print(lst3)

''' \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* OUT PUT \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

list of Students who play both cricket and badminton:

set(['Aman', 'Atharva'])

List of students who play either cricket or badminton but not both

['Raj', 'Ruchi', 'Saloni', 'Aditya', 'Ayush']

Number of students who play neither cricket nor badminton

['Vedant']

Number of students who play cricket and football but not badminton.

['Raj', 'Ruchi']

'''