From ctypes import sizeof

Print (“ hello World Welcome To Sets “)

A = set([])

No = int(input(“ Enter The Total Number In Set A “))

For I in range(no):

M = int(input(“ Enter Elements “):

a.add(m);

B = set([])

No = int(input(“ Enter The Total Number In Set B “))

For I in range(no):

M = int(input(“ Enter Elements “))

b.add(m);

Print(“ Set A : “,a)

Print(“ Set B : “,b)

While 1:

Print(“\n\n\n \*\*\*\*\* MENU \*\*\*\*\*\* \n”)

Print(“1 : Union”)

Print(“2 : Intersection”)

Print(“3 : Set Difference”)

Print(“4 : Subset”)

Print(“5 : Is Empty”)

Print(“6 : Len of A”)

Print(“7 : Len of B”)

Print(“8 : size of A and B “)

Print(“9 : searching “)

Print(“10: add Element “)

Print(“11: Remove Element”)

# print(“12: isContains “)

# print(“ \n\n “)

Ch=int(input(“\n\*\*\*\*\* Enter your Choice \*\*\*\*\*\* \n”))

If ch==1:

Print(“\n Union of A and B as”,a.union(b))

If ch==2:

Print(“ \n Intersection of A and B”,a.intersection(b))

If ch==3:

Print(“\n Set difference A-B as”,a-b)

If ch==4:

If a.issubset(b):

Print(“\nIs subset”)

Else:

Print(“\n Not a subset”)

If ch==5:

If len(a)==0:

Print(“\n Set A is Empty”)

Else:

Print(“\n Set A is not empty”)

If ch==6:

Print(“Len A=”,len(a))

If ch==7:

Print(“Len B=”,len(b))

If ch== 8 :

Print(“\n size of a is :”,sizeof(a))

Print(“\n size of a is :”,sizeof(b))

If ch== 9 :

Num = int(input(“ \n Enter Element to Be Searched “))

If num in a :

Print(“ \n Number is Found In Set A “)

Elif num in b:

Print(“ \n Number Is Found In Set B “)

Else :

Print(“\n\n Sorry ! Number Not Found “)

If ch==10 :

Ad = int(input(“ Enter Number To be Added In Set A “))

a.add(ad)

Print(“ \n number Added In Set A “)

Print(“\n Updated Set : “,a)

If ch==11 :

Rm = int(input(“ Enter Numbber To Delete “))

a.remove(rm)

Print(“\n Number Removed “)

Print(“ \n updated Set Set “ , a)

# Coded By A~viruS

OUTPUT :



