Practical No. 2

setA = {"A", "B", "C", "D", "E"}

setB = {"B", "C", "D"}

def display():

print(setA)

print(setB)

def addEle(ele):

setA.add(ele)

def remEle(ele):

setA.remove(ele)

print("Element" + ele + "removed")

def searchEle(ele):

if ele in setA:

return "True"

def getSize():

print(len(setA))

def getInter():

setC = setA.intersection(setB)

print(setC)

def getUnion():

setC = setA.union(setB)

print(setC)

def getDiff():

setC = setA.difference(setB)

print(setC)

def getSubset():

setC = setB.issubset(setA)

print(setC)

if \_\_name\_\_ == "\_\_main\_\_":

while True:

print("1. Add Element.")

print("2. Remove Element.")

print("3. Search Element.")

print("4. Get Size of Set.")

print("5. Intersection.")

print("6. Union.")

print("7. Difference.")

print("8. Subset.")

print("9. Exit.")

ch = int(input("->"))

while (ch != 9):

if ch == 1:

display()

print("Enter the element you want to add")

ele = input()

addEle(ele)

display()

break

elif ch == 2:

display()

print("Enter the element you want to remove")

ele = input()

remEle(ele)

display()

break

elif ch == 3:

print("Enter the element you want to search")

ele = input()

searchEle(ele)

display()

break

elif ch == 4:

getSize()

break

elif ch == 5:

getInter()

break

elif ch == 6:

getUnion()

break

elif ch == 7:

getDiff()

break

elif ch == 8:

getSubset()

break

if ch == 9:

break

Output:











