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''' Implement Set and Tuple Operations '''

# create empty set and tuple
setdata=set()
tupledata=tuple()


#run infinite loop for menu
while 1:

    choice=input("Enter your choice \nS : Set Operation\nT : Tuple Operations\nN : Terminate\n")
    if choice=="s":

        while 1:

            print("Choose the Set operation")
            print("1 : Add/Insert")
            print("2 : Remove/Delete")
            print("3 : Update/Append")
            print("4 : Display/View")
            print("0 : Exit")
            operations=int(input())
            if operations == 1:

                data=input("Enter the elements to add : ")#read the data from the user
                setdata.add(data)#adds data to set
                print(setdata)
            elif operations == 2:

                data=input("Enter the elements to delete : ")#read the data from the user
                setdata.discard(data)#delets perticular data from the set
                print(setdata)
            elif operations == 3:

                data=input("Enter the elements to update : ")#read the data from the user
                setdata.update(data)#Update data
                print(setdata)
            elif operations == 4:

                print(setdata)#print set

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elif operations == 0:
    break
else:
    print("Invalid Choice")
elif choice == "t":
    while 1:
        print("Choose the Tuple operation")
        print("1 : Add/Insert")
        print("2 : Delete Tuple")
        print("3 : display/View")
        print("0 : Exit\n")
        operations=int(input())
        if operations == 1:
            data=input("Enter the elements to add : ")#read the data from the user
            tupledata+=(data,)#New data is appended to the tuple

        elif operations == 2:
            del tupdata #delets entire tuple
            print("Tuple Deleted")

        elif operations == 3:
            print(tupledata)#prints the tuple data

        elif operations == 0:
            break
        else:
            print("Invalid Choice")
elif choice == "n":
    break

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