**Computer final: Taleen Habash 8D**

#the list of atoms

atoms=["hydrogen","helium","lithium","beryllium","boron","carbon"

,"nitrogen","oxygen","florine","neon","sodium","magnesium","alluminum",

"silicon","phosphorus","sulfur","chlorine","argon","potassium","calcium",

"scandium","titanium","vanadium","chromium","manganese","iron","cobalt",

"nickel","copper","zinc","gallium","germanium","arsenic","selenium","bromine",

"krypton","rubidium","strontium","yttrium","zirconium","niobium","molybdenum",

"technetium","ruthenium","rhodium","palladium","silver","cadmium","indium","tin"

,"antimony","tellurium","iodine","xenon","cesium","barium","lanthanum","cerium",

"praseodymium","neodymium","promethium","samarium","europium","europium",

"gadolinium","terbium","dysprosium","holmium","erbium","thulium","ytterbium",

"lutetium","hafnium","tantalum","tungsten","rhenium","osmium","iridium",

"platinum","gold","mercury"]

#main program

choice=""

while choice !="X":

 print("^^^^^^^^^^^^^^^^^^^^^")

 print("A T O M \* F I N D E R")

 print(".....................")

 print("\n")

 print("A:Append an atom to the list")

 print("B:Remove an atom from the list")

 print("C:print the list")

 print("D:sort the list")

 print("E:the length of the list")

 print("F:edit an atom")

 print("X:exit the program")

 print("\n")

 choice=input("choose an option")

 if choice=="A":

 name=input("enter a name of an atom to add:")

 atoms.append(name)

 print(name,"has been added to the list")

 if choice=="B":

 name=input("enter the name you want to remove")

 atoms.remove(name)

 print(name,"has been removed from the list")

 if choice=="C":

 print(atoms)

 if choice=="D":

 atoms.sort()

 print(atoms)

 if choice=="E":

 print(len(atoms))

 if choice=="F":

 i=int(input("which atom do you want to change?"))

 atoms[i]=input("enter a new atom")

 print(atoms)