#the list of atoms

atoms=["Hydrogen","Helium","Lithium","Berylium","Boron","Carbon","Nitrpgen","Oxygen","Flourine","Neon","Sodium",

"Magnesium","Aluminium","Silicon","Phosphurus","Sulfer","Chlorine","Argon","Potassium","Calcium","Scandium",

"Titanium","Vanadium","Chromium","Manganese","Iron","Cobalt","Nickel","Copper","Zinc","Gallium","Germanium","Aresnic"

,"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","Gadolinium","Terbium"

,"Dysprosium","Holmium","Erbium","Thulium","Ytterbium","Lutetium","Hafnium","Tantalum","Tungsten","Rhenium","Osmium",

"Tridium","Platinum","Gold","Mercury","Thallium","Lead","Bismuth","Polonium","Astatine","Radon","Francium","Radium"]

choice=' ' ''

while choice !='x':

 print('######################')

 print('A T O M F I N D E R')

 print('######################')

 print('\n')

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

 print("B: Romove 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 addef to the list")

 if choice=="B":

 name=input("enter the name of an atom to remove")

 atoms.remove(name)

 print(name,"nas been removed to the list")

 if choice=="C":

 print(atoms)

 if choice=="D":

 atoms.sort()

 print(atoms)

 if choice=="E":

 print(len(atoms))

 if choice=="F":

 print(atoms)

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

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

 print(atoms)