#list of atom

atoms=["Hydrogen","Helium","Lithum","Buryllium","Boron","Carbon","Nitrogen",

"Oxygen","Fluorine","Neon","Sodium","Magnesium","Aluminum","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","Gadolinium",

"Terbium","Dysprosium","Holmium","Erbium","Thulium","Ytterbium","Lutetium",

"Hafnium","Tantalum","Tungsten","Rhenium","Osmium","Iridium","Platinum","Gold",

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

#Main programe

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:Removean 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 the name of an atom to add:")

atoms.apprnd(name)

print(name,"has been added from thr list")

if choice=="B":

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

atoms.remove(name)

print(name,"has beem 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":

print(atoms)

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

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

print(atoms)