**Link to my project on online gdb**

**<https://onlinegdb.com/vLLrSlsKr>**

# the list of atoms

atoms=["Hydrogen","Helium","Lithium","Beryllium","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","Mendelevium","Tantalum","TungsterRhenium",

"Osmium","Iridium","Platinum"."Gold","Mercury",

"Thallium","Lead","Bismuth","Polonium","Astatine",

"Radon","Francium","Radium","Actinium","Thorium",

"Uranium","Neptunium","Plutonium","Americium",

"Curium","Berkelium ","Californium","Ensteinium","Fermium",

"Mendelevium","Nobelium","Lawrencium","Rutherfordium","Dubnium",

"Seaborgium","Bohrium","Hassium","Meitnerium","Darmstadtium",

"Roentgenium","Copernicium","Nihonium","Flerovium","Moscovium",

"Livermorium","Tennessine","Oganesson"]

#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: Sort the list")

 print("D:print the list ")

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

 print("F: Find an atom in the list ")

 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.append(name)

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

 if choice=="B":

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

 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":

 print(atoms)

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

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

 print(atoms)