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1 # Python: Write Python code to do the following operations:
2 # Create a dictionary that contains the atomic element symbol and its name.
3 # Add a unique & duplicate element into this dictionary by interacting with the user.
4 # Observe the output and justify it.
5 # Display the number of atomic elements in this dictionary
6 # Ask user to enter an element to search in the dictionary. Display appropriate results.
7
8 #File name that must be imported
9 from AtomicDictionary import *
10 AtomicDictionary()
11
12
13 #AtomicDictnary.py
14 def AtomicDictionary():
15     element = {"Na": "Sodium", "Al": "Aluminium"}
16     print(element)
17     #Entering values into the dictionary
18     unikey = input("Enter the symbol for a unique element pair\n")
19     unisub = input("Enter the element name for {}\n".format(unikey))
20     element.update({unikey: unisub})
21     #Trying to enter duplicate values
22     unikey = input("Enter the symbol for a duplicate element\n")
23     unisub = input("Enter the element name for {}\n".format(unikey))
24     element.update({unikey: unisub})
25     print("The number of elements in the dictionary are {}".format(len(element)))
26     #Search element in Dictionary
27     se = input("Enter the element to search in the dictionary\n")
28     if se in element.values():
29         print("Element found")
30     else:
31         print("Element not found")
32

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