GROUP B
PDS Assignment No.- 03

Assignment 03. (Group B)

AIM - Write a python program to search for a string in a hetrogeneous array of 7 items by a user defined function that accepts two arguments.
— If the string found return the position of the string
— If the string not found, add the string to the list.
Note → Don't use built in functions/methods.

Theory ⟶

Strings ⟶

python strings is a collection of the characters surrounded by single quotes, double quotes or triple quotes. Initially, computer doesn't understand the character it stores the value in the form of 0's and 1's.   remain
Each character usually encoded in the ASCII or unicode character, that's why python strings are also called as the unicode characters.

Syntax ⟶

str = "Hi python, scoB&6 Rudraksh"

— There's no support character type in the python, these are treated as strings of length one, that's why we can consider them as substrings.

— To acct access the substrings, use of square brackets for slicing along with the index or indices to obtain substring.

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Example ⟶

Val 1 = "Hello world!"

Val 2 = 'python programming"

print ("val1[0]: ", val1[0])

print ("val2[1:5]:", val2[1:5]).

Output →

Val1[0]: H

val 2[1:5]: ytho. ✓

— Hetrogeneous list ⟶

— List in a python is a collection of hetrogeneous data, we can have different type of data elements inside the list.
List can contains hetrogeneous values such as integer, floats, strings, tuples, lists and dictionaries but they are commonly used to store collection of homogeneous objects.

Program code:

```python
print("_____SCOB86_Rudraksh Karpe_____")
def list1(a):
    return (list1)
a = ["Rudraksh","programmer","New York","Developer","Machine
Learning","13458"]


b = input("Enter the string:")
if b in a:
    print("The string is in the list1 in the position: ", a.index(b)+1)
    print("The search string is added to the list1: \n", b)
else:
    print ("String is not in list1")
    b= (a) + [b]
```

Output:

```
_____SCOB86_Rudraksh Karpe_____
Enter the string:Rudraksh
The string is in the list1 in the position:  1
The search string is added to the list1:
 Rudraksh
```

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