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| --- | --- |
| **Ex. No. 8**  **Date:16.06.2021** | **STRINGS – LEVEL 2** |

**AIM:**

To write Python programs using strings concept.

**PROGRAMS:**

**a) Check if a string contains any special character**

**Description:**

Special characters to be checked - @#$%&!

Sample Input

python

Sample Output

There are no special characters

Sample Input

python$programming

Sample Output

Special character(s) is/are present

**Program:**

'''Name: R.sridevi

Roll no: 20UIT021

Program name: To sort strings in alphabetical order.'''

import re

# User defined function to check special characters

def specialChar(pattern, word):

match=re.search(pattern,word)

if match:

print("Special character(s) is/are present")

else:

print("There are no special characters")

# Define the pattern

pattern =r"[@#$%&!]+"

# Get the input for the word

word=input()

# Call the function

specialChar(pattern,word)

**Test Cases:**

|  |  |  |
| --- | --- | --- |
| **Test Case No.** | **Input** | **Expected Output** |
| 1 | python$programming | Special character(s) is/are present |
| 2 | @python | Special character(s) is/are present |
| 3 | python& | Special character(s) is/are present |
| 4 | python#programming$ | Special character(s) is/are present |
| 5 | $#@ | Special character(s) is/are present |
| 6 | Python | There are no special characters |
| **Total Test Cases** | | **6** |
| **Number of Test Cases Passed** | | **6** |

**b) Find all close matches of input string from a list**

**Description:**

Pattern = ['c', 'java', 'pro', 'gram', 'the', 'like']

Sample Input

javaprogramming

Sample Output

['java', 'pro', 'gram']

Sample Input

JavaProGram

Sample Output

No matches found

**Program:**

'''Name : R.sridevi

Roll No: 20UIT021

Program name: To find all close matches of input string from a list.'''

from difflib import get\_close\_matches

# User defined function to find all the matched

def matchChar(pattern, word):

list= get\_close\_matches(word,pattern)

if(len(list)==0):

print("No matches found")

else:

print(list)

# Define the pattern

pattern = ['c', 'java', 'pro', 'gram', 'the', 'like']

# Get the input for the word

word = input()

# Call the function

matchChar(pattern,word)

**Test Cases:**

|  |  |  |
| --- | --- | --- |
| **Test Case No.** | **Input** | **Expected Output** |
| 1 | JavaProGram | No matches found |
| 2 | likejava | ['like', 'java'] |
| 3 | program | ['gram', 'pro'] |
| **Total Test Cases** | | **3** |
| **Number of Test Cases Passed** | | **3** |

**RESULT:**

Thus, the Python programs are executed successfully.