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1 #Enrollment No: 202203103510097
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 4
 5 """ Regular Expression is a meaningful sequence of patterns that attempts to operate on
   input text.
 6 Regular Expressions are useful in wide variety of text processing tasks. They even used for
   validation,
 7 data scraping, parsing, etc. """
 9 """ Python provide in-built module named "re" that can be imported in python as "import re"
10 For more detail study on re you can visit https://docs.python.org/3/library/re.html """
12 #Note: Line 1-8 are for your study, it should be removed in final practical.
13 import re
14
15 #We want to search for a 6 letters string startswith (^) A and endswith ($) S. Any string
   qualifies the criteria will be considered valid.
16 re pattern = "^A....S$"
17 my string = input("-->> Enter your Institute Name: ")
18 check = re.match(re pattern, my string) #Method-1
19 if check:
20
     print("--> You have entered correct data for your institute.\n")
21 else:
22
     print("--> Invalid institute name.\n")
23
24 #We want to match for all (+) decimal digits (\d) in input.
25 re pattern = "d+"
26 my string = input("-->> Enter your address:")
27 decimals = re.findall(re pattern, my string) #Method-2
28 print(decimals)
29
30 #We want to search for specific character (\A) in user given input:
31 re pattern = "\AComputer"
32 my string = input("-->> Enter your course name:")
33 success = re.search(re pattern, my string)
34 if success:
35
     print("--> You have enter a correct course name.\n")
36 else:
     print("--> Invalid course name.\n")
37
39 #We want to validate the use entered Indian mobile number.
40 re pattern = "^[6789]\d{9}$" #starting with (^) having starting digits 6-9[6789] is decimal
   (\d) remaining size of {9} and end($)
41 my string = input("-->> Enter your Mobile Number: ")
42 match = re.match(re pattern, my string)
43 if match:
     print("--> You have entered valid mobile number.\n")
44
45 else:
     print("--> Invalid mobile number:\n")
46
47
48 re pattern = \[ -(a-z)-9]+[\] \[ -(a-z)-9]+(a-z)+\[ -(a-z)-3\}[\] \[ -(a-z)-3)?
49 my email = input("-->> Enter your e-mail ID: ")
50 match = re.match(re pattern, my email)
52
     print("--> You have entered valid e-mail ID.\n")
53 else:
54
     print("--> Invalid e-mail.\n")
55
56 print("-*-*-*-END OF PRACTICAL 18-*-*-*-")
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1 of 2 28/04/23, 10:28