In [1]: text = 'Python Exercise, PHP exercise.' new_text = text.replace (' ', ':').replace(',', ':').replace('.', ':') print(new_text) Python:Exercise::PHP:exercise: In [9]: import pandas as pd dict= {'SUMMARY' : ['hello, world!', 'XXXXX test', '123four, five:: six...']} df =pd.DataFrame(dict) df['SUMMARY'] = df['SUMMARY'].str.replace('[^a-z\s]', '', regex=True) print(df) SUMMARY hello world 0 1 test 2 four five six In [43]: import re str= "Small acts, when multiplied by millions of people, can transform the world." pattern = re.compile(r'\b\w{4}\b') result = pattern.findall(str) print(result) ['acts', 'when'] In [49]: import re string= "Small acts, when multiplied by millions of people, can transform the world." pattern = re.compile($r'\b\w{3,5}\b'$) result= pattern.findall(string) print(result) ['Small', 'acts', 'when', 'can', 'the', 'world'] In [59]: import re items = ["example (.com)", "hr@fliprobo (.com)", "github (.com)", "Hello Data Science World ", "Data Scientist"] for item in items: print(re.sub(r" ?\([^)]+\)", "", item)) example hr@fliprobo github Hello Data Science World Data Scientist In [63]: import re target_string = "ImportanceOfRegularExpressionsInPython" word_list = re.findall('[A-Z][^A-Z]*', target_string) print(word_list) ['Importance', 'Of', 'Regular', 'Expressions', 'In', 'Python'] In [2]: test_str = "RegularExpression1IsAn2ImportantTopic3InPython" num="0123456789" for i in test_str: if i in num: test_str=test_str.replace(i, " "+i+" ") res=test_str print("The space added string : " + str(res)) The space added string: RegularExpression 1 IsAn 2 ImportantTopic 3 InPython In [3]: import re def text_match(text): patterns = $'^[a-zA-Z0-9]*$ if re.search(patterns, text): return 'Found a match!' else: return('Not matched!') print(text_match("The quick brown fox jumps over the lazy dog.")) print(text_match("Python_Exercises_1")) Not matched! Found a match! In [4]: import re def match_num(string): text = $re.compile(r"^5")$ if text.match(string): return True else: return False print(match_num('5-2345861')) print(match_num('6-2345861')) False import re In [1]: ip = "200.06.085.172" string = re.sub($'\setminus [0]^*'$, '.', ip) print(string) 200.6.85.172 In [25]: import re text = "On August 15th 1947 that India was declared independent from British colonialism, and the reins of control were handed over to the leaders of the Country" $pattern = r"(?i) \\ b(January|February|March|April|May|June|July|August|September|October|November|December) \\ \\ s+\\ d\{1,2\}(?:st|nd|rd|th) \\ \\ s+\\ d\{4\}\\ b"(?:st|nd|rd|th) \\ \\ s+\\ d[4]\\ b"(?$ match = re.search(pattern, text) if match: print(match.group()) print("No date string found") August 15th 1947 In [6]: **import** re text = 'Python exercises, PHP exercises, C# exercises' pattern = 'exercise' for match in re.findall(pattern, text): print("%s" %match) exercise exercise exercise In [2]: import re text = 'Python exercises, PHP exercises, C# exercises' pattern= 'exercise' for match in re.finditer(pattern, text): s = match.start() e = match.end() print('found "%s" at %d:%d' % (text[s:e], s, e)) found "exercise" at 7:15 found "exercise" at 22:30 found "exercise" at 36:44 In [3]: **import** re def change_date_format(dt): **return** re.sub(r'($\d{4}$)-($\d{1,2}$)-($\d{1,2}$)', ' $\d{3-\d{1,2}}$ ', dt) dt1 = "2011-10-29" print("Original date in YYY-MM-DD Format: ",dt1) print("New date in DD-MM-YYYY Format: ",change_date_format(dt1)) Original date in YYY-MM-DD Format: 2011-10-29 New date in DD-MM-YYYY Format: 29-10-2011 In [4]: import re def find_decimal_numbers(string): pattern = $re.compile(r'\d+\.\d{1,2}')$ decimal_numbers = re.findall(pattern, string) return decimal_numbers sample_text = "01.12 0132.123 2.31875 145.8 3.01 27.25 0.25" result = find_decimal_numbers(sample_text) print(result) ['01.12', '0132.12', '2.31', '145.8', '3.01', '27.25', '0.25'] In [5]: import re text = "The following example creates an ArrayList with a capacity of 50 elements. Four elements are then added to the ArrayList and the ArrayList is trimmed accordingly." for m in re.finditer("\d+", text): print(m.group(0)) print("Index position:", m.start()) Index position: 62 In [6]: **import** re string='My marks in each semester are: 947, 896, 926, 524, 734, 950, 642' number = re.findall('\d+', string) number = map(int, number)print("Max_value:", max(number)) Max_value: 950 In [7]: import re def insert_spaces(text): pattern = r'([A-Z][a-z]+)'result = re.sub(pattern, r' \1', text) result = result.strip() return result sample_text = "RegularExpressionIsAnImportantTopicInPython" result = insert_spaces(sample_text) print(result) Regular Expression Is An Important Topic In Python In [8]: import re pattern = r'[A-Z][a-z]+'text = "'The quick Brown Fox Jumps over the lazy Dog" matches = re.findall(pattern, text) print(matches) ['The', 'Brown', 'Fox', 'Jumps', 'Dog'] In [9]: **import** re def remove_duplicates(sentence): pattern = $r'\b(\w+)(\s+\1\b)+'$ result = re.sub(pattern, $r' \setminus 1'$, sentence) return result sentence = "hello hello world world" result = remove_duplicates(sentence) print(result) hello world In [10]: **import** re regex_expression = '[a-zA-z0-9]\$' def check_string(my_string): if(re.search(regex_expression, my_string)): print("The string ends with alphanumeric character") else: print("The string doesnot end with alphanumeric character") my_string_1= "Python1245" print("\nThe string is :") print(my_string_1) check_string(my_string_1) The string is: Python1245 The string ends with alphanumeric character In [11]: string = 'Ron was born on 12-09-1992 and he was admitted to school 15-12-1999' date = "-".join(string.split()[-1].split("-")) print("Computed date:", date) Computed date: 15-12-1999 In [12]: import re def remove_words(string): pattern = re.compile($r'\b\w{2,4}\b'$) modified_string = re.sub(pattern, '', string) return modified_string sample_text = "The following example creates an ArrayList with a capacity of 50 elements. 4 elements are then added to the ArrayList and the ArrayList is trimmed accordingly." result = remove_words(sample_text) print(result) following example creates ArrayList a capacity elements. 4 elements added ArrayList ArrayList trimmed accordingly. In [13]: import re strings = "@Jags123456 Bharat band on 28??<ed><U+00A0><U+00BD><ed><U+00B8><U+0082>Those who are protesting #demonetization are all different party leaders" pattern = $r'<U'+\w{4}>'$ result = re.sub(pattern, "", strings) print(result) @Jags123456 Bharat band on 28??<ed>Those who are protesting #demonetization are all different party leaders In [15]: import re def extract_hashtags(text): hashtag_pattern = $r'\#\w+'$ hashtags = re.findall(hashtag_pattern, text) **return** hashtags sample_text = """RT @kapil_kausik: #Doltiwal I mean #xyzabc is "hurt" by #Demonetization as the same has rendered USELESS <ed><U+00A0><U+00BD><ed><U+00B1><U+00B9> "acquired funds" | print(extract_hashtags(sample_text)) ['#Doltiwal', '#xyzabc', '#Demonetization'] In [22]: import re pattern = "fox" text = "The quick brown fox jumps over the lazy dog" matches = re.findall(pattern, text) print(matches) ['fox']