

Jul 12, 23 17:48	Regular	Page 1/11
<pre> **In[1]:*+ [source, ipython3] ----- import regex as re ----- **In[2]:*+ [source, ipython3] ----- import re def is_allowed_specific_char(string): charRe = re.compile(r'[^a-zA-Z0-9]') string = charRe.search(string) return not bool(string) print(is_allowed_specific_char("ABCDEFabcdef123450")) print(is_allowed_specific_char("*%#@#!}{")) ----- **Out[2]:*+ ----- True False ----- **In[2]:*+ [source, ipython3] ----- import re def text_match(text): patterns = '^a(b*)\$' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!') print(text_match("ac")) print(text_match("abc")) print(text_match("a")) print(text_match("ab")) print(text_match("abb")) ----- **Out[2]:*+ ----- Not matched! Not matched! Found a match! Found a match! Found a match! ----- **In[3]:*+ [source, ipython3] ----- import re def text_match(text): patterns = 'ab?' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!') print(text_match("ab")) </pre>		

Jul 12, 23 17:48	Regular	Page 2/11
<pre> print(text_match("abc")) print(text_match("abbc")) print(text_match("aabbc")) ----- **Out[3]:*+ ----- Found a match! Found a match! Found a match! Found a match! ----- **In[4]:*+ [source, ipython3] ----- import re def text_match(text): patterns = 'ab{3}?' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!') print(text_match("abbb")) print(text_match("aabbbbbc")) ----- **Out[4]:*+ ----- Found a match! Found a match! ----- **In[7]:*+ [source, ipython3] ----- import re ini_str = 'ImportanceOfRegularExpressionsInPython' print ("Initial String", ini_str) res_list = [] res_list = re.findall('[A-Z][^A-Z]*', ini_str) print("Resultant prefix", str(res_list)) ----- **Out[7]:*+ ----- Initial String ImportanceOfRegularExpressionsInPython Resultant prefix ['Importance', 'Of', 'Regular', 'Expressions', 'In', 'Python'] ----- **In[8]:*+ [source, ipython3] ----- import re </pre>		

Jul 12, 23 17:48	Regular	Page 3/11
<pre>def text_match(text): patterns = 'ab{2,3}' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!') print(text_match("ab")) print(text_match("aabbbbbc")) ----</pre> <pre>+*Out[8]:*+ ----- Not matched! Found a match! -----</pre> <pre>+*In[9]:*+ [source, ipython3] ----- import re def text_match(text): patterns = '^[a-z]_[a-z]+\$' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!')</pre> <pre>print(text_match("aab_cbbbc")) print(text_match("aab_Abbbc")) print(text_match("Aaab_abbbc")) -----</pre> <pre>+*Out[9]:*+ ----- Found a match! Not matched! Not matched! -----</pre> <pre>+*In[10]:*+ [source, ipython3] ----- import re def text_match(text): patterns = 'a.*?b\$' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!')</pre> <pre>print(text_match("aabbabd")) print(text_match("aabAbbbc")) print(text_match("accddbjjjb")) -----</pre> <pre>+*Out[10]:*+ ----- Not matched! Not matched! Found a match! -----</pre> <pre>+*In[11]:*+</pre>		

Jul 12, 23 17:48	Regular	Page 4/11
<pre>[source, ipython3] ----- import re def text_match(text): patterns = '^w+' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!')</pre> <pre>print(text_match("The quick brown fox jumps over the lazy dog. ")) print(text_match(" The quick brown fox jumps over the lazy dog. ")) -----</pre> <pre>+*Out[11]:*+ ----- Found a match! Not matched! -----</pre> <pre>+*In[12]:*+ [source, ipython3] ----- import re def text_match(text): patterns = '^[a-zA-Z0-9_]*\$' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!')</pre> <pre>print(text_match("The quick brown fox jumps over the lazy dog. ")) print(text_match("Python_Exercises_1")) -----</pre> <pre>+*Out[12]:*+ ----- Not matched! Found a match! -----</pre> <pre>+*In[13]:*+ [source, ipython3] ----- 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')) -----</pre> <pre>+*Out[13]:*+ ----- True False -----</pre> <pre>+*In[14]:*+</pre>		

Jul 12, 23 17:48	Regular	Page 5/11
<pre>[source, ipython3] ---- import re ip = "216.08.094.196" string = re.sub('\.[0]*', '.', ip) print(string) ---- +*Out[14]:*+ ---- 216.8.94.196 ----</pre> <pre>+*In[23]:*+ [source, ipython3] ---- import re from datetime import datetime Schedule.txt 'On August 15th 1947 that India was declared independent from British colonialis m, and the reins of control were handed over to the leaders of the Country' file = open("schedule.txt",'r') text = file.read() match = re.search(r'\d+-\d+-\d{4}', text) date = datetime.strptime(match.group(), '%d-%m-%Y').date() print(f"'August 15th 1947 {date}.") file.close() ----</pre> <pre>+*Out[23]:*+ ----- NameError Traceback (most recent call last) Cell In[23], line 3 1 import re 2 from datetime import datetime ----> 3 Schedule.txt 4 'On August 15th 1947 that India was declared independent from Britis h colonialism, and the reins of control were handed over to the leaders of the C ountry' 6 # open the data file NameError: name 'Schedule' is not defined ----</pre> <pre>+*In[24]:*+ [source, ipython3] ---- import re pattern = 'fox' text = 'The quick brown fox jumps over the lazy dog.' match = re.search(pattern, text) s = match.start() e = match.end()</pre>		

Jul 12, 23 17:48	Regular	Page 6/11
<pre>print('Found "%s" in "%s" from %d to %d ' % \ (match.re.pattern, match.string, s, e)) ---- +*Out[24]:*+ ---- Found "fox" in "The quick brown fox jumps over the lazy dog." from 16 to 19 ----</pre> <pre>+*In[25]:*+ [source, ipython3] ---- import re pattern = 'dog' text = 'The quick brown fox jumps over the lazy dog.' match = re.search(pattern, text) s = match.start() e = match.end() print('Found "%s" in "%s" from %d to %d ' % \ (match.re.pattern, match.string, s, e)) ----</pre> <pre>+*Out[25]:*+ ---- Found "dog" in "The quick brown fox jumps over the lazy dog." from 40 to 43 ----</pre> <pre>+*In[26]:*+ [source, ipython3] ---- import re pattern = 'horse' text = 'The quick brown fox jumps over the lazy dog.' match = re.search(pattern, text) s = match.start() e = match.end() print('Found "%s" in "%s" from %d to %d ' % \ (match.re.pattern, match.string, s, e)) ----</pre> <pre>+*Out[26]:*+ ---- Cell In[26], line 8 (match.re.pattern, match.string, s, e) ^ SyntaxError: unexpected EOF while parsing ----</pre> <pre>+*In[27]:*+ [source, ipython3] ---- import re text = 'Python exercises, PHP exercises, C# exercises' pattern = 'exercises' for match in re.findall(pattern, text): print('Found "%s"' % match) ----</pre>		

Jul 12, 23 17:48	Regular	Page 7/11
<pre> +*Out[27]:*+ ----- Found "exercises" Found "exercises" Found "exercises" ----- +*In[28]:*+ [source, ipython3] ----- import re text = 'Python exercises, PHP exercises, C# exercises' pattern = 'exercises' for match in re.finditer(pattern, text): s = match.start() e = match.end() print('Found "%s" at %d:%d' % (text[s:e], s, e)) ----- +*Out[28]:*+ ----- Found "exercises" at 7:16 Found "exercises" at 22:31 Found "exercises" at 36:45 ----- +*In[30]:*+ [source, ipython3] ----- import re def change_date_format(dt): return re.sub(r'(\d{4})-(\d{1,2})-(\d{1,2})', '\3-\2-\1', dt) dt1 = "2023-07-10" print("Original date in YYYY-MM-DD Format: ",dt1) print("New date in DD-MM-YYYY Format: ",change_date_format(dt1)) ----- +*Out[30]:*+ ----- Original date in YYYY-MM-DD Format: 2023-07-10 New date in DD-MM-YYYY Format: 10-07-2023 ----- +*In[31]:*+ [source, ipython3] ----- import re text = "The following example creates an ArrayList with a capacity of 50 element s. Four elements are then added to the ArrayList and the ArrayList is trimmed ac cordingly." list = re.findall("[ae]\w+", text) print(list) ----- +*Out[31]:*+ ----- ['example', 'eates', 'an', 'ayList', 'apacity', 'elements', 'elements', 'are', ' en', 'added', 'ayList', 'and', 'ayList', 'ed', 'accordingly'] ----- </pre>		

Jul 12, 23 17:48	Regular	Page 8/11
<pre> +*In[32]:*+ [source, ipython3] ----- import re text = "The following example creates an ArrayList with a capacity of 50 element s. Four elements are then added to the ArrayList and the ArrayList is trimmed ac cordingly." for m in re.finditer("\d+", text): print(m.group(0)) print("Index position:", m.start()) ----- +*Out[32]:*+ ----- 50 Index position: 62 ----- +*In[33]:*+ [source, ipython3] ----- import re string='ab12cd123ef23' number = re.findall('\d+', string) number = map(int, number) print("Max_value:",max(number)) ----- +*Out[33]:*+ ----- Max_value: 123 ----- +*In[34]:*+ [source, ipython3] ----- import re def capital_words_spaces(str1): return re.sub(r"(\w)([A-Z])", r"\1 \2", str1) print(capital_words_spaces("Python")) print(capital_words_spaces("PythonExercises")) print(capital_words_spaces("PythonExercisesPracticeSolution")) ----- +*Out[34]:*+ ----- Python Python Exercises Python Exercises Practice Solution ----- +*In[35]:*+ [source, ipython3] ----- import re </pre>		

Jul 12, 23 17:48	Regular	Page 9/11
<pre> def text_match(text): patterns = '[A-Z]+[a-z]+\$' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!') print(text_match("AaBbGg")) print(text_match("Python")) print(text_match("python")) print(text_match("PYTHON")) print(text_match("aA")) print(text_match("Aa")) ---- +*Out[35]:*+ ---- Found a match! Found a match! Not matched! Not matched! Not matched! Found a match! ---- +*In[36]:*+ [source, ipython3] ---- def unique_list(text_str): l = text_str.split() temp = [] for x in l: if x not in temp: temp.append(x) return ' '.join(temp) text_str = "Python Exercises Practice Solution Exercises" print("Original String:") print(text_str) print("\nAfter removing duplicate words from the said string:") print(unique_list(text_str)) ---- +*Out[36]:*+ ---- Original String: Python Exercises Practice Solution Exercises After removing duplicate words from the said string: Python Exercises Practice Solution ---- +*In[37]:*+ [source, ipython3] ---- import re regex = '[a-zA-z0-9]\${' def check(string): if(re.search(regex, string)): print("Accept") </pre>		

Jul 12, 23 17:48	Regular	Page 10/11
<pre> else: print("Discard") # Driver Code if __name__ == '__main__' : string = "ankirai@" check(string) string = "ankitrai326" check(string) string = "ankit." check(string) string = "geeksforgeeks" check(string) ---- +*Out[37]:*+ ---- Discard Accept Discard Accept ---- +*In[45]:*+ [source, ipython3] ---- from dateutil import parser str1 = "Ron was born on 12-09-1992 and he was admitted to school 15-12-1999" print("The given string is") print(str1) date = parser.parse(str1, fuzzy=True) print("The date present in the string is") print(str(date)[:10]) ---- +*Out[45]:*+ ---- The given string is Ron was born on 12-09-1992 and he was admitted to school 15-12-1999 The date present in the string is 1992-12-09 ---- +*In[46]:*+ [source, ipython3] ---- import re text = 'Python Exercises, PHP exercises.' print(re.sub("[,.]", ":", text)) ---- +*Out[46]:*+ ---- </pre>		

Jul 12, 23 17:48

Regular

Page 11/11

```

Python:Exercises::PHP:exercises:
----

+*In[50]:*+
[source, ipython3]
----
text1 = """RT @kapil_kausik: #Doltiwal I mean #xyzabc is "hurt" by #Demonetizati
ion as the same has rendered USELESS <ed><U+00A0><U+00BD><ed><U+00B1><U+0089> "a
cquired funds" No wo"""
textList = text1.split()
for i in textList:
    if(i.startswith("#")):
        x = i.replace("#", '')
        print(x)
----

+*Out[50]:*+
----
Doltiwal
xyzabc
Demonetization
----

+*In[56]:*+
[source, ipython3]
----
import re

original = "@Jags123456 Bharat band on 28??<ed><U+00A0><U+00BD><ed><U+00B8><U+00
82>Those who are protesting #demonetization are all different party leaders"

print ("Original String: " + original)

unwanted = "<U+00A0>"

original = re.sub(unwanted, '', original)
print ("Final Output:" + original)
----

+*Out[56]:*+
----
Original String: @Jags123456 Bharat band on 28??<ed><U+00A0><U+00BD><ed><U+00B8>
<U+0082>Those who are protesting #demonetization are all different party leade
rs
Final Output:@Jags123456 Bharat band on 28??edBDedB882Those who are protesting
#demonetization are all different party leaders
----

+*In[ ]:*+
[source, ipython3]
----

```