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In [1]: #question 1
In [27]: import re
         s=input("Enter the string: ")
         pat=re.compile(r'^a[a-zA-Z]{3}z$')
         matched=pat.search(s)
         if matched !=None:
             print("serach successful")
         else:
             print("search unsucessful")
         Enter the string: hello
         search unsucessful
 In [ ]:
         #question 2
 In [3]:
         import re
In [26]:
         def text_match(text):
                  patterns = '^a(b^*)$'
                  if re.search(patterns, text):
                          return ('Match found!')
                  else:
                          return('Not matched!')
         print(text_match("ac"))
         print(text_match("a"))
         Not matched!
         Match found!
 In [ ]:
         #question 3
 In [ ]:
In [25]:
         import re
         def text_match(text):
                  patterns = 'ab+?'
                  if re.search(patterns, text):
                          return('Match found!')
                  else:
                          return('Not matched!')
         print(text_match("abc"))
         print(text_match("ab"))
         Match found!
         Match found!
 In [ ]:
In [24]:
         import re
         def text_match(text):
             patterns = ' '
              if re.search(patterns, text):
                  return ('Match found!')
                  return( 'Not matched!')
         print(text_match("aGo"))
         print(text_match("Go b"))
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print(text_match("Go c"))
         print(text_match("Go ab"))
         Not matched!
         Match found!
         Match found!
         Match found!
 In [ ]:
         import re
In [23]:
         def text_match(text):
                  patterns = 'ab{3}?'
                  if re.search(patterns, text):
                          return ('Match found!')
                  else:
                          return('Not matched!')
         print(text_match ("bbba"))
         print(text_match("aabbbbbc"))
         print(text_match("abbb"))
         print(text_match("cbbbba"))
         Not matched!
         Match found!
         Match found!
         Not matched!
 In [ ]:
         import re
In [22]:
         def text_match(text):
                  patterns = ab\{2,3\}
                  if re.search(patterns, text):
                          return ('Match found!')
                  else:
                          return('Not matched!')
         print(text_match("abbbbc"))
         print(text_match("abbc"))
         print(text_match("abbbbbbbbbb"))
         print(text_match("abbbc"))
         Match found!
         Match found!
         Match found!
         Match found!
 In [ ]:
         import re
In [21]:
         def text_match(text):
                  patterns = '^[a-z]+_[a-z]+
                  if re.search(patterns, text):
                          return ('Match found!')
                  else:
                          return('Not matched!')
         print(text_match("Aaabb_abbc"))
         print(text_match("ab_cbbc"))
         print(text_match("aabb_Abbc"))
         Not matched!
         Match found!
         Not matched!
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import re
In [20]:
         def text_match(text):
                  patterns = ab\{2,3\}
                  if re.search(patterns, text):
                          return ('Match found!')
                          return('Not matched!')
         print(text_match("acdeb"))
         print(text_match("aefdb"))
         print(text_match("acb"))
         print(text_match("axefcb"))
         Not matched!
         Not matched!
         Not matched!
         Not matched!
 In [ ]:
         import re
In [19]:
         def text_match(text):
                  patterns = '^\w+'
                  if re.search(patterns, text):
                          return ('Match found!')
                  else:
                          return('Not matched!')
         print(text_match(" The science is best part of the nature."))
         print(text_match("The science is best part of the nature."))
         Not matched!
         Match found!
         import re
In [30]:
         def text_match(text):
                  patterns = '^[a-zA-Z0-9_]*$'
                  if re.search(patterns, text):
                          return ('Match found!')
                  else:
                          return('Not matched!')
         print(text_match("The science is best part of the nature."))
         print(text match("Fusion Series"))
         Not matched!
         Match found!
         import re
In [31]:
         def match_num(string):
             text = re.compile(r"^5")
             if text.match(string):
                  return False
              else:
                  return True
         print(match num('9-123456'))
         print(match_num('7-654321'))
         True
         True
In [33]: import re
         ip = "45.112.30.154"
         string = re.sub('\.[0]*', '.', ip)
         print(string)
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In [34]: import re
         patterns = [ 'fox', 'dog', 'horse' ]
         text = ('The quick brown fox jumps over the lazy dog.')
         for pattern in patterns:
             print('Searching for "%s" in "%s" ->' % (pattern, text),)
             if re.search(pattern, text):
                 print('Match!')
             else:
                  print('Not Matched!')
         Searching for "fox" in "The quick brown fox jumps over the lazy dog." ->
         Searching for "dog" in "The quick brown fox jumps over the lazy dog." ->
         Match!
         Searching for "horse" in "The quick brown fox jumps over the lazy dog." ->
         Not Matched!
In [35]: 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()
         print('Found "%s" in "%s" from %d to %d ' \% \
              (match.re.pattern, match.string, s, e))
         Found "fox" in "The quick brown fox jumps over the lazy dog." from 16 to 19
In [39]: import re
         pattern = 'exercises'
         text = ('Python exercises, PHP exercises, C# exercises')
         for match in re.findall(pattern, text):
             print('Found "%s"' % match)
         Found "exercises"
         Found "exercises"
         Found "exercises"
In [ ]:
         import re
In [40]:
         pattern = 'exercises'
         text = ('Python exercises, PHP exercises, C# 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))
         Found "exercises" at 7:16
         Found "exercises" at 22:31
         Found "exercises" at 36:45
In [43]: 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 = "2025-10-03"
         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: 2025-10-03
         New date in DD-MM-YYYY Format: 03-10-2025
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In [45]:
         import re
         text =
         list = re.findall("[ae]\w+", text)
         print(list)
         ['engineers', 'accountants', 'aeronautical', 'enigneers']
In [50]: import re
         num_list = map(int, occ)
         occ = re.findall("\d+", "They are 143780 people in my city out of which 3567 are in
         print(max(num_list))
         143780
         import re
In [53]:
         def capital_words_spaces(str1):
             return re.sub(r"(\w)([A-Z])", r"\1 \2", str1)
         print(capital_words_spaces("India"))
         print(capital_words_spaces("India Country"))
         print(capital_words_spaces("India Country Is Great"))
         India
         India Country
         India Country Is Great
In [54]: import re
         def text_match(text):
                 patterns = '[A-Z]+[a-z]+$'
                 if re.search(patterns, text):
                          return ('Matched!')
                  else:
                          return('Not matched!')
         print(text_match("Vehana"))
         print(text_match("JoShInI"))
         Matched!
         Not matched!
In [58]:
         import re
         print(re.findall("#(\w+)", input("enter your name")))
         enter your namesirisha
         []
In [61]:
         import re
         text = "@Jags123456 Bharat band on 28??<ed><U+00A0><U+00BD><ed><U+00B8><U+0082>Tho:
         newtext = re.sub(r"^[^{w}]+|[^{w}]+$", "", text)
         print(newtext)
         Jags123456 Bharat band on 28??<ed><U+00A0><U+00BD><ed><U+00B8><U+0082>Those who a
         re protesting #demonetization are all different party leaders
         import re
In [62]:
         text = ('Python Exercises, PHP exercises.')
         print(re.sub("[ ,.]", ":", text))
         Python: Exercises:: PHP: exercises:
In [ ]:
In [ ]:
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In []:	
In []:	
In []:	