Answer 1

1.import re

2.text = 'Python Exercises, PHP exercises.'

3.print(re.sub("[ ,.]", ":", text))

Answer 2

1.import pandas as pd

2.data = {'SUMMARY': ['hello, world!', 'XXXXX test', '123four, five:; six...']}

3.df = pd.DataFrame(data)

4.df['SUMMARY'] = df['SUMMARY'].str.replace('[^a-zA-Z\s]', '', regex=True)

5.print(df)

Answer 3

1.import re

2.text = 'The quick brown fox jumps over the lazy dog.'

3.print(re.findall(r"\b\w{4,}\b", text))

Answer 4

1.import re

2.text = 'The quick brown fox jumps over the lazy dog.'

3.print(re.findall(r"\b\w{3,5}\b", text))

Answer 6

import re

def remove\_parentheses(strings):

pattern = re.compile(r"\(|\)")

modified\_strings = []

for string in strings:

modified\_string = re.sub(pattern, "", string)

modified\_strings.append(modified\_string)

return modified\_strings

Answer 8

import re

def insert\_spaces(text):

pattern = r'(\d+)([A-Za-z]+)'

result = re.sub(pattern, r'\1 \2', text)

return result

Answer 9

import re

def insert\_spaces(text):

pattern = r'([A-Z][a-z0-9]+|\d+)'

result = re.sub(pattern, r' \1', text)

result = result.strip()

return result

Answer 11

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"))

Answer 12

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'))

Answer 13

import re

ip = "216.08.094.196"

string = re.sub('\.[0]\*', '.', ip)

print(string)

Answer 14

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"\b([A-Z][a-z]+) \d{1,2}(?:st|nd|rd|th)? \d{4}\b"

matches = re.findall(pattern, text)

print(matches)

Answer 15

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('Matched!')

else:

print('Not Matched!')

Answer 16

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))

Answer 17

import re

text = 'Python exercises, PHP exercises, C# exercises'

pattern = 'exercises'

for match in re.findall(pattern, text):

print('Found "%s"' % match)

Answer 18

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))

Answer 19

import re

def change\_date\_format(dt):

return re.sub(r'(\d{4})-(\d{1,2})-(\d{1,2})', '\\3-\\2-\\1', dt)

dt1 = "2026-01-02"

print("Original date in YYY-MM-DD Format: ",dt1)

print("New date in DD-MM-YYYY Format: ",change\_date\_format(dt1))

Answer 20

import re

def find\_decimal\_numbers(string):

pattern = re.compile(r'\d+\.\d{1,2}')

decimal\_numbers = re.findall(pattern, string)

return decimal\_numbers

Answer 21

import re

# Input.

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())

Answer 22

import re

input\_string = 'My marks in each semester are: 947, 896, 926, 524, 734, 950, 642'

numeric\_values = re.findall(r'\d+', input\_string)

numeric\_values = [int(value) for value in numeric\_values]

max\_value = max(numeric\_values)

print(max\_value)

Answer 23

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"

output = insert\_spaces(sample\_text)

print(output)

Answer 24

import re

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"))

Answer 25

import re

def remove\_duplicates(sentence):

pattern = r'\b(\w+)(\s+\1\b)+'

result = re.sub(pattern, r'\1', sentence)

return result

sentence = "Hello hello world world"

output = remove\_duplicates(sentence)

print(output)

Answer 26

import re

def check\_string(string):

pattern = r"\w$"

match = re.search(pattern, string)

if match:

return True

else:

return False

input\_string = input("Enter a string: ")

if check\_string(input\_string):

print("String ends with an alphanumeric character")

else:

print("String does not end with an alphanumeric character")

Answer 27 import re

def extract\_hashtags(text):

hashtags = re.findall(r'#\w+', text)

return hashtags

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+0089> "acquired funds" No wo'

hashtags = extract\_hashtags(text)

print(hashtags)