Regular Expression Practice Questions

Question 1- Write a RegEx pattern in python program to check that a string contains only a certain set of characters (in this case a-z, A-Z and 0-9).

import re

my\_string = input('enter a string: ')

p = re.compile('[^0-9A-Za-z ]+')

m = p.search(my\_string)

if m:

print('the sting contains', m.group(), 'at place', m.start())

else:

print('the string contains only digits 0-9 and letters of english alphabet')

Question 2- Write a RegEx pattern that matches a string that has an a followed by zero or more b's

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"))

Question 3- Write a RegEx pattern that matches a string that has an a followed by one or more b's

import re

my\_string = input('enter a string ')

p = re.compile('ab+?')

m = p.search(my\_string)

if m:

print('it\'s a match')

else:

print('no match found')

Question 4- Write a RegEx pattern that matches a string that has an a followed by zero or one 'b'.

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"))

Question 5- Write a RegEx pattern in python program that matches a string that has an a followed by three 'b'.

import re

my\_string = input('enter a string ')

p = re.compile('ab{3}?')

m = p.search(my\_string)

if m:

print('it\'s a match')

else:

print('no match found')

Question 6- Write a RegEx pattern in python program that matches a string that has an a followed by two to three 'b'.

import re

my\_string = input('enter a string ')

p = re.compile('ab{2,3}?')

m = p.search(my\_string)

if m:

print('it\'s a match')

else:

print('no match found')

Question 7- Write a Python program that matches a string that has an 'a' followed by anything, ending in 'b'.

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("aabbbbd"))

print(text\_match("aabAbbbc"))

print(text\_match("accddbbjjjb"))

Question 8- Write a RegEx pattern in python program that matches a word at the beginning of a string.

import re

def text\_match(text):

patterns = '^\w+'

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(" The quick brown fox jumps over the lazy dog."))

Question 9- Write a RegEx pattern in python program that matches a word at the end of a string.

import re

my\_string = input('enter a string ')

m = re.match('^\w+', my\_string)

if m:

print('it\'s a match')

else:

print('no match found')

Question 10- Write a RegEx pattern in python program to find all words that are 4 digits long in a string.

import re  
  
*# Define the regular expression pattern*  
pattern = r"\b\d{4}\b"  
  
*# Create a string to search*  
string = "The quick brown fox jumps over the lazy dog. 1234 5678"  
  
*# Find all matches of the pattern in the string*  
matches = re.findall(pattern, string)  
  
*# Print the matches*  
for match in matches:  
 print(match)