**Regular Expression Practice Questions**

**Vijayprem – Batch No 2309**

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 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("\*&%@#!}{"))

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 def text\_match(text): patterns = 'ab+?' if re.search(patterns, text): return 'Found a match!' else: return('Not matched!') print(text\_match("ab")) print(text\_match("abc"))

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

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"))

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

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"))

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

def text\_match(text):

patterns = '\w+\S\*$'

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. "))

print(text\_match("The quick brown fox jumps over the lazy dog "))

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

Sample text- '01 0132 231875 1458 301 2725.'

Expected output- ['0132', '1458', '2725']