**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).

Ans1-pattern=”\w”

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

Ans2-pattern=”^a(b\*)$”

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

Ans3-pattern=”^a(b+)$”

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

Ans4-pattern=”^a(b?)$”

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

**Ans5-Code**

**def function(text):**

**pattern="^ab{3}$"**

**if re.search(pattern,text):**

**return "match found"**

**else:**

**return "not matched"**

**print(function('abbb'))**

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

Ans6-code

def function(text):

pattern="^ab{2,3}$"

if re.search(pattern,text):

return "match found"

else:

return "not matched"

print(function('ab'))

print(function('abb'))

print(function('abbb'))

print(function('abbbbb'))

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

Ans7-code

def function(text):

pattern="^a.+(b$)"

if re.search(pattern,text):

return "match found"

else:

return "not matched"

print(function("acb"))

print(function("accb"))

print(function("acbc"))

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

Ans8-code

def function(text):

pattern= "^\w+"

if re.search(pattern,text):

return "match found"

else:

return "not matched"

print(function("Data Science"))

print(function(" Data Science"))

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

Ans9-code

def function(text):

pattern="\w+\S$"

if re.search(pattern,text):

return "match found"

else :

return "not found"

print(function("She is great "))

print(function("She is great."))

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']

Ans10-code

pattern="\s\d{4}\s\*"

text ='01 0132 231875 1458 301 2725.'

result=re.findall(pattern,text)

result

O/P- [' 0132 ', ' 1458 ', ' 2725'] (How to remove space from numbers)