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).

Ans :- import re

      def is_allowed_specific_char(string):

      charRe= re.compile(r'[^ a-z A-Z 0-9]')

      return not bool (string)

    print(is_allowed_specific_char("ABCDEFabcdef1234560"))

    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

Ans:- import re

     def text_match (text):

    patterns = '^a(b*)$'

     if re.search (patterns, text):

     return 'found a match !'

else:

   return ('not matched!')

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

Ans :- :- import re

     def text_match (text):

    patterns = 'ab+?'

     if re.search (patterns, text):

     return 'found a match !'

else:

   return ('not matched!')

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

Ans :- :- import re

```
def text_match (text):

patterns = 'ab?'

 if re.search (patterns, text):

 return 'found a match !'

else:

 return ('not matched!')
```

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

Aans :- :- import re

```
def text_match (text):

patterns = 'ab{3}?'

 if re.search (patterns, text):

 return 'found a match !'

else:

 return ('not matched!')
```

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

Ans :- :- 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'.

Ans :- 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 ("abbbbd"))

print(text_match("aabbAbbc"))

print(text_match("aaacccddjjbb"))

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

Ans :- import re

     def text_match (text):

     patterns = '^\w+'

     if re.search (patterns, text):

     return 'found a match !'

else:

     return ('not matched!')

 print(text_match ("India is our pride"))

print(text_match("India is our pride"))

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

Ans :- 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 ("India is our country"))

print(text_match("India is our country"))

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']