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 : ^[a-zA-Z0-9]+$: ^ - asserts the position at the start of the string, a-z matches that smaller alphabets, A-Z matches the capital alphabets ,0-9 matches the numbers,+ it matches more occurances ,$- asserts the position at end the string

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

Ans: Pattern : ^ab*$,^ asserts the position at the start of the string.,a matches the character 'a'.,b* matches zero or more occurrences of the character 'b'.,$ asserts the position at the end of the string.

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

Pattern: ^ab+$, ^ asserts the position at the start of the string.,a matches the character 'a'. ,b+ matches one or more occurrences of the character 'b',$ asserts the position at the end of the string.

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

Pattern: ^ab?$, ^ asserts the position at the start of the string, a matches the character 'a',b? matches zero or one occurrence of the character 'b', $ asserts the position at the end of the string.

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

Pattern: ^abbb$, - ^ asserts the position at the start of the string, a matches the character 'a', bbb matches exactly three occurrences of the character 'b', $ asserts the position at the end of the string.

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

Pattern: ^ab{2,3}$ -,^ asserts the position at the start of the string, a matches the character 'a'.,b{2,3} matches between 2 and 3 occurrences of the character 'b', $ asserts the position at the end of the string.

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

Pattern: ^a.*b$,^ asserts the position at the start of the string. ,a matches the character 'a' , * matches any sequence of characters (including none). b matches the character 'b'. $ asserts the position at the end of the string.

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

Pattern: ^\w+ , ^ asserts the position at the start of the string, \w+ matches one or more word characters (letters, digits, and underscores).

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

Pattern: ^\w+ $, ^ asserts the position at the start of the string, \w+ matches one or more word characters (letters, digits, and underscores).

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.'

Ans.