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]+$ "   (^ start with [a-zA-Z0-9] these and + for 1 or multiple occurence and $ is used for end of the string

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

Ans: " ^ab*$ "   (string will start with a and followed by b ,* will be used for zero or more occurrence)

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

Ans: '^ab+$'   (+ for 1 or more occurrence)

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

Ans: '^ab?$' (? For 0 and 1 occurrence)

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

Ans: '^ab{3}$'   {} – used for exact occurrence

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

Ans: '^ab{2,3}$'

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

Ans: '^a.*b$'   (. to match anything , * used for 0 or more occurence)

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

Ans: '^\w+'   (+ will match one or more word characters)

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

Ans: '\w+$'

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']

Ans: '\b\d{4}\b'   (\b   is word boundary)