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]

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

Ans: ab*

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

Ans: a(b+)?

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

Ans: a(b)?

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

Ans: a(b?)

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

Ans: a[b]{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

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

Ans: ^Write

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

Ans: \bpython/b

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: import re

```
def find_4_digit_words(text):
    pattern = r'\b\d{4}\b'
    matches = re.findall(pattern, text)
    return matches

# Example usage
text = '01 0132 231875 1458 301 2725.'
result = find_4_digit_words(text)
print(result)
```