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).

A: import re
     pattern='\w'
     test_string=input('enter a string=')
     result=re.findall(pattern,test_string)
        If result:
            print('true')
        Else:
           print('false')
Or
Import re
print(re.findall(r'\w','12helloAbc345'))

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

A: import re
    pattern='ab*'
    test_string='ab'
     result=re.match(pattern,test_string)
      print(result)
Or
Import re
print(re.search(r'ab*','ab'))

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

A: import re

   print(re.search(r'ab+','abbot'))

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

A: import re

   print(re.search(r'ab?','about'))

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

A: import re

   print(re.search(r'a(b){3}','abbbcd'))

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

A: import re

print(re.search(r'a(b){2,3}','abbreviation'))

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

A: import re

   print(re.search(r'a.*?b$','aadvcdkeb'))

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

A: import re

  print(re.findall(r'\bfoo','football'))

Or

Import re

pattern='\Afoot'

test_string=input('enter a string=')

result(re.findall(pattern,test_string))

If result:

print('string is successful')

Else:

print('string is unsuccessful')

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

A: import re

print(re.findall(r'ball\b','football'))

or

```python
import re

pattern='game\Z'

test_string= input('enter a string=')

result=(re.findall(pattern,test_string))

if result:

    print('True')

else:

    print('False')
```

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']

```python
A:import re

pattern='\d{4}'

text='01 0132 231875 1458 301 2725.'

matches=re.findall(pattern,text)

print(matches)
```

END