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).

Answer:

```
 test_string= "Hello123"
pattern= r'^[\da-zA-Z0-9]+$'
y=re.match(pattern,test_string)
print(y)
```

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

Answer:

```
test_string=["ab", "abb", "abbb", "abbbb", "abbbbb"]
y= re.match( r"ab*", test_string)
print(y)
```

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

Answer:

```
test_string=["ab", "abb", "abbb", "abbbb", "abbbbb"]

y= re.match( r"ab+", test_string)

print(y)
```

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

Answer:

```
test_string=["ab", "abb", "abbb", "abbbb", "abbbbb"]

y= re.match( r"ab?", test_string)

print(y)
```

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

Answer:

```
test_string=["ab", "abb", "abbb", "abbbb", "abbbbb"]

y= re.match( r"ab{3}", test_string)

print(y)
```

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

Answer:

test_string=["ab", "abb", "abbb", "abbbb", "abbbbb"]

y= re.match(r"ab{2,3}", test_string)

print(y)

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

Answer:

test_string=["apple","banana","absdftb","catfish"]

y= re.match(r"a.*b$", test_string)

print(y)

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

Answer:

test_string= "This product is really great"

search= re.search("^This.", test_string)

print(search)

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

Answer:

test_string= "This product is really great"

search= re.search("great$", test_string)

print(search)

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']

Answer:

```python
Sample_text-= '01 0132 231875 1458 301 2725.'
y  = re.findall('\d{4}',sample_text)
print(y)
```