

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).

```
import re

string="abc00123xyz456"

pattern=('^[a-zA-Z0-9]*$')

matches=re.match(pattern,string)

print(matches)
```

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

```
string="abbbc"

pattern=('ab*')

matches=re.match(pattern,string)

print(matches)
```

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

```
string="abbbc"

pattern=('ab+')

matches=re.match(pattern,string)

print(matches)
```

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

```
string="abbbc"

pattern=('ab?')

matches=re.match(pattern,string)
```

```
print(matches)
```

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

```
string="abbbc"
```

```
pattern=('ab{3}')
```

```
matches=re.match(pattern,string)
```

```
print(matches)
```

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

```
string="abbbc"
```

```
pattern=('ab{2,3}')
```

```
matches=re.match(pattern,string)
```

```
print(matches)
```

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

```
string="adbddd bbb"
```

```
pattern=('a.*?b$')
```

```
matches=re.match(pattern,string)
```

```
print(matches)
```

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

```
string="India is my motherland"
```

```
pattern=('^India')
matches=re.match(pattern,string)
print(matches)
```

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

```
string="India is my motherland"
pattern=("motherland$")
matches=re.findall(pattern,string)
if matches:
    print("Y")
else:
    print("N")
```

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']

```
string=('01 0132 231875 1458 301 2725')
pattern=(r'\b\d{4}\b')
matches=re.findall(pattern,string)
print(matches)
```