

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:

```
import re

def is_allowed_specific_char(string):
    charRe = re.compile(r'^a-zA-Z0-9')
    string = charRe.search(string)
    return not bool(string)

print(is_allowed_specific_char("ABCDEFabcdef123450"))
print(is_allowed_specific_char("*&%@#!}{"))
```

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

Ans:

```
import re

def text_match(text):
    patterns = '^a(b*)$'
    if re.search(patterns, text):
        return 'Found a match!'
    else:
        return('Not matched!')

print(text_match("ac"))
print(text_match("abc"))
print(text_match("a"))
print(text_match("ab"))
print(text_match("abb"))
```

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

Ans:

```
import re

def text_match(text):
    patterns = 'ab+?'
    if re.search(patterns, text):
        return 'Found a match!'
    else:
        return('Not matched!')

print(text_match("ab"))
print(text_match("abc"))
```

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

Ans:

```
import re

def text_match(text):
    patterns = 'ab?'
    if re.search(patterns, text):
        return 'Found a match!'
    else:
        return('Not matched!')

print(text_match("ab"))
print(text_match("abc"))
print(text_match("abbc"))
print(text_match("aabbc"))
```

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

Ans:

```
import re

def text_match(text):
    patterns = 'ab{3}?'
    if re.search(patterns, text):
        return 'Found a match!'
    else:
        return('Not matched!')

print(text_match("abbb"))
print(text_match("aabbbbbbc"))
```

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

Ans:

```
import re

def text_match(text):
    patterns = 'ab{2,3}'
    if re.search(patterns, text):
        return 'Found a match!'
    else:
        return('Not matched!')

print(text_match("ab"))
print(text_match("aabbbbbbc"))
```

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

Ans:

```
import re

def text_match(text):
    patterns = 'a.*?b$'
    if re.search(patterns, text):
        return 'Found a match!'
    else:
        return('Not matched!')

print(text_match("aabbbbd"))
print(text_match("aabAbbbc"))
print(text_match("accddbbjjjb"))
```

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

Ans:

```
import re

def text_match(text):
    patterns = '^\\w+'
    if re.search(patterns, text):
        return 'Found a match!'
    else:
        return('Not matched!')

print(text_match("The quick brown fox jumps over the lazy dog."))
print(text_match(" The quick brown fox jumps over the lazy dog."))
```

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

Ans:

```
import re
```

```
def text_match(text):
```

```
    patterns = '\w+\S*$'
```

```
    if re.search(patterns, text):
```

```
        return 'Found a match!'
```

```
    else:
```

```
        return('Not matched!')
```

```
print(text_match("The quick brown fox jumps over the lazy dog."))
```

```
print(text_match("The quick brown fox jumps over the lazy dog. "))
```

```
print(text_match("The quick brown fox jumps over the lazy dog "))
```

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
```

```
text = 'The quick brown fox jumps over the lazy dog.'
```

```
print(re.findall(r"\b\w{4,}\b", text))
```