

## Regular Expression Practice Questions and Answers

**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
target_string = "Hello123World"
result = re.match("[a-zA-Z0-9]+$", target_string)
print(result)
```

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

```
import re
string1 = " abergavenny is town in Wales "
result = re.match(r'a*b*', string1)
print(result)
```

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

```
import re
string2 = "abbreviations are shortened forms of words or lengthy phrases"
result = re.match(r'ab+', string2)
print(result)
```

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

```
import re
string3 = "apples are good for health"
result = re.match(r'ab?', string3)
print(result)
```

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

```
import re  
string4 = "abbb ab a abbb"  
result = re.match(r'abbb', string4)  
print(result)
```

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

```
import re  
string5 = "abbb ab a abbb"  
result = re.match(r'ab{2,3}', string5)  
print(result)
```

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

```
import re  
string6 = "airbnb property in Zagreb"  
result = re.match(r'a.*b$', string6)  
print(result)
```

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

```
import re  
string7 = 'Cardiff is capital of Wales'  
result = re.match(r'^\w+', string7)  
print(result)
```

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

```
string6 = "Cardiff is capital of Wales."  
result = re.search(r'\w+$', string6)  
print(result)
```

**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']**

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