REGEX PRACTICE

1. **RegEx pattern in python to check that a string contains only a certain set of characters**

In [2]:

```
import re
pattern = r'^[a-zA-Z0-9]+$'
string = "Practice123"

if re.match(pattern,string):
    print("The string contains only alphanumeric chars")
else:
    print("The string contains other chars as well")
```

1. **Write a RegEx pattern that matches a string that has an a followed by zero or more b's**

In [16]:

```
pattern = r'ab*'
string = "abishek is my colleague"

re.match(pattern,string)
```

Out[16]:

```
<re.Match object; span=(0, 2), match='ab'>
```

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

In [19]:

```
pattern = r'ab+'
string = "abishek is my colleague and abu is my neighbour"

re.match(pattern,string)
```

Out[19]:

```
<re.Match object; span=(0, 2), match='ab'>
```

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

In [29]:

```
pattern = r'ab?'
string = "aa a0 ab"

re.match(pattern,string)
```

Out[29]:

```
<re.Match object; span=(0, 1), match='a'>
```

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

In [32]:

```
pattern = r'abbb'
string = "abbbbinaya"

if re.match(pattern,string):
    print("The string matches the pattern")
```

```
else:
    print("The string does not matches the pattern")
```

```
The string matches the pattern
```

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

In [33]:

```
pattern = r'ab{2,3}'
string = "abb"

if re.match(pattern,string):
    print("The string matches the pattern")
else:
    print("The string does not match the pattern")
```

```
The string matches the pattern
```

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

In [35]:

```
pattern = r'a.*b$'
string = "azjgsfcjb"

if re.match(pattern,string):
    print("The string matches the pattern")
else:
    print("The string does not match the pattern")
```

```
The string matches the pattern
```

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

In [49]:

```
pattern = r'^\w+'
string = "yamaha is an old known company"

if re.match(pattern,string):
    print("The pattern matches the word at the beginning of string")
else:
    print("The string does not match the pattern")
```

```
The pattern matches the word at the beginning of string
```

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

In [47]:

```
pattern = r'\w+$'
string = "I'm learning python"

match = re.search(pattern,string)
if match:
    print("The pattern matches the word at the end of string")
else:
    print("The string does not match the pattern")
```

```
The pattern matches the word at the end of string
```

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']

In [50]:

```
pattern = r'\b\w{4}\b'
```

```
pattern = r'\D\w{4}\D'
string = "abc 01 0132 231627 4363 7365 974383"

matches = re.findall(pattern,string)
print(matches)
```

```
['0132', '4363', '7365']
```

In [ ]:

```
```