Day 13 Python – RegEX

Exercise:

Write a Python program for all the cases which can check a string contains only a certain set of characters (in this case a-z, A-Z and 0-9).

In [2]:

```
import re
```

In [8]:

```
def is_check_char(s):
    ch=re.compile(r'[^a-zA-Z0-9.]')
    s=ch.search(s)
    return not bool(s)
print(is_check_char("123advADzg"))
print(is_check_char("123adv@#ADzg"))
```

```
True
False
```

Write a Python program that matches a word containing 'ab'.

In [9]:

```
def word_match(s):
    pattern='\w*ab.\w*'
    if re.search(pattern,s):
        return "Matches"
    else:
        return "Not matches"
```

In [13]:

```
word_match('Helloworld')
```

Out[13]:

```
'Matches'
```

In [12]:

```
word_match('aaabbbabab')
```

Out[12]:

```
'Matches'
```

Write a Python program to check for a number at the end of a word/sentence.

In [14]:

```
def end_num(s):
    word=re.compile(r'.*[0-9]$')
    if word.match(s):
        return True
    else:
        return False
```

In [15]:

```
end_num('abhi899')
```

Out[15]:

```
True
```

In [16]:

```
end_num('abhi899cvv')
```

Out[16]:

```
False
```

Write a Python program to search the numbers (0-9) of length between 1 to 3 in a given string

In [17]:

```
results = re.finditer(r"([0-9]{1,3})", "Exercises number 1, 9, 11, and 222 are important")
print("Number of length 1 to 3")
for n in results:
    print(n.group(0))
```

```
Number of length 1 to 3
1
9
11
222
```

Write a Python program to match a string that contains only uppercase letters¶

In [20]:

```
def text_match(text):
        patterns = '^[A-Z_]*$'
        if re.search(patterns,  text):
                return 'Found a match!'
        else:
                return('Not matched!')
```

In [22]:

```
print(text_match("The quick brown fox jumps over the lazy dog."))
print(text_match("Python_Exercises_1"))
print(text_match("HELLO"))
```

```
Not matched!
Not matched!
Found a match!
```

In [ ]:

```

```