RegEX

1.Write a Python program for all the cases which can check a string contains only a certain set of characters

In [1]:

```
import re
```

In [7]:

```
def allowerd_char(string):
    input_char = re.compile(r'[^a-zA-Z0-9.]')
    string = input_char.search(string)
    return not bool(string)
```

In [53]:

```
print(allowerd_char("adfsjnfdsni453n43"))
print(allowerd_char("123@$"))    #Symbolsd return false
```

```
True
False
```

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

In [11]:

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

In [14]:

```
print(text_match("aadjhbasaacb"))
```

```
Not matched!
```

In [20]:

```
x=input("")
if 'ab' in x:
  print("match found")
else:
  print("no match  found")
```

```
bsdhbuhuuhdab
match found
```

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

In [28]:

```
def end(input_string):
    x = re.compile(r".*[0-9]$")
    if x.match(input_string):
        return True
    else:
        return False
```

In [29]:

```
print(end('abcdef12233'))
print(end('abcdef634556'))
```

```
print(end('abc'))
```

```
True
True
False
```

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

In [49]:

```
results = re.finditer(r"([0-9]{1,3})", " 1, 12, 13, and 345 3403 90807060")
print("Number of length 1 to 3")
for n in results:
    print(n.group(0))
```

```
Number of length 1 to 3
1
12
13
345
340
3
908
070
60
```

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

In [50]:

```
def match(text):
        patterns = '^[a-zA-Z0-9_]*$'
        if re.search(patterns,  text):
                return 'Found a match!'
        else:
                return('Not matched!')
```

In [52]:

```
print(match("Nithish Kumar S"))   # No blank spaces are aloowed
print(match("Nithish_kumar_s"))
```

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