Regular expressions

We have to import the package re

Methods

- search
- match
- findall

syntax: re.methodname(pattern,string)

```
In [3]:
           1
             import math
           3 math.sqrt(4)
           4 math.log2(10)
 Out[3]: 3.321928094887362
 In [8]:
              import re
           2
           3 ## search
           4
           5 print(re.search("SD","APSSDC"))
           6 print(re.search("SA", "APSSDC"))
             print(re.search("PSSD","APSSDC"))
           7
           8
         <re.Match object; span=(3, 5), match='SD'>
         <re.Match object; span=(1, 5), match='PSSD'>
In [10]:
           1 # match
           2 print(re.match("SD","APSSDC"))
           3 print(re.match("A", "APSSDC"))
           4 print(re.match("APC", "APSSDC"))
         None
         <re.Match object; span=(0, 1), match='A'>
         None
In [13]:
           1 # find all
           3 print(re.search("SD","APSSDSDSDSDSDC"))
           4 s = re.findall("SD", "APSSDSDSDSDSDC")
           5
             len(s)
         <re.Match object; span=(3, 5), match='SD'>
Out[13]: 5
```

Symbols

In [20]:

In [26]:

In [28]:

None None

Description

Character

	Cilaractei	Description	Example
	[]	A set of characters	"[a-m]"
	\	Signals a special sequence (can also be used to escape special characters)	"\d"
		Any character (except newline character)	"heo"
	^	Starts with	"^hello"
	\$	Ends with	"world\$"
	*	Zero or more occurrences	"aix*"
	+	One or more occurrences	"aix+"
	{}	Exactly the specified number of occurrences	"al{2}"
	I	Either or	"falls stays"
	()	Capture and group	
None <re. None <re. None</re. </re. 	<pre>print(re.sea print(re.sea print(re.sea print(re.sea print(re.sea Match object; Match object; Match object;</pre>	<pre>rch("","APSSDC")) rch("","A")) rch(""," APSSDC")) rch("A","APSSDC")) rch("A","APSSDC")) rch("S","APSS")) span=(0, 2), match='AP'> span=(0, 2), match=' '> span=(0, 3), match='APS'></pre>	
1 2 3 4	<pre>print(re.sea</pre>	rch("^AP","APSSDC")) rch("^A","PSSADC")) rch("A","PSSADC"))	
None		<pre>span=(0, 4), match='APSS'> span=(3, 6), match='ADC'></pre>	
1 2 3 4	<pre>print(re.mat</pre>	ch("^AP","APSSDC")) ch("^A","PSSADC")) ch("AP","PSSADC"))	
<re. None</re. 		span=(0, 4), match='APSS'>	

Example

In []: 1