

In [11]:

```
#to check a string contains only a certain set of characters(in this case a-z,A-Z and 0-9)
import re
print(bool(re.match('[A-Za-z0-9]*$', "123aAbc097")))
print(bool(re.match('[A-Za-z0-9]*$', "AP^!#PL23E")))
```

True
False

In [12]:

```
#program that matches a word containing 'ab'
import re
def abmatch(text):
    pattern="ab"
    if re.search(pattern,text):
        return('found a match!')
    else:
        return('not matched!')
print(abmatch("abcab"))
print(abmatch("urt"))
print(abmatch("ertuab"))
```

found a match!
not matched!
found a match!

In [2]:

```
#to check for a number at end of word/sentence
import re
def num(wrd):
    z=re.compile(r".*[0-9]$")
    if z.match(wrd):
        return True
    else:
        return False
print(num("55abcab"))
print(num("ur2666t100"))
print(num("ertuab45"))
```

False
True
True

In [7]:

```
#to search the number(0-9)of Length between 1 to 3 in a given string
import re
txt="lointou179k125 45569"
search=re.findall(r'[0-9]{1,3}',txt)
print(search)
```

```
['179', '125', '455', '69']
```

In [10]:

```
#to match a string that contains only uppercase letters
import re
str1=input("enter the string of your choice:")
srch=re.findall("[A-Z]",str1)
print(srch)
```

```
enter the string of your choice:mY nAME is ToM
['Y', 'A', 'M', 'E', 'T', 'M']
```