In [2]:
```
import re
```

Findall()

In [6]:
```
text="The rain in spain"
x=re.findall(r'[a-n, " "]',text)
print(x)
```

```
['h', 'e', ' ', 'a', 'i', 'n', ' ', 'i', 'n', ' ', 'a', 'i', 'n']
```

In [8]:
```
text="The rain in spain"
x=re.findall(r'[a-n," "][o-z]',text) # 2-2 pair checking
print(x)
```

```
[' r', ' s']
```

In [12]:
```
s='123 567 898 5'
y=re.findall(r'[1-9][1-9]',s) # for 2 chr [] for first [] for 2
print(y)
```

```
['12', '56', '89']
```

In [13]:
```
text="The rain in spain"
x=re.findall(r'[^a-m]',text) # 2-2 pair checking
print(x)
```

```
['T', ' ', 'r', 'n', ' ', 'n', ' ', 's', 'p', 'n']
```

In [16]:
```
text="The rain in 12345"
x=re.findall(r'\d',text) # d=digit D=non digit
print(x)
```

```
['1', '2', '3', '4', '5']
```

In [17]:
```
text="The rain in 12345"
x=re.findall(r'\D',text) # d=digit D=non digit
print(x)
```

```
['T', 'h', 'e', ' ', 'r', 'a', 'i', 'n', ' ', 'i', 'n', ' ']
```

In [18]:
```
text="The rain in 12345"
x=re.findall(r'\s',text) # s=space
print(x)
```

```
[' ', ' ', ' ']
```

In [19]:
```
text="The rain in 12345"
x=re.findall(r'\S',text) # s = non space
print(x)
```

```
['T', 'h', 'e', 'r', 'a', 'i', 'n', 'i', 'n', '1', '2', '3', '4', '5']
```

In [20]:
```
text="The rain in 12345"
x=re.findall(r'\w',text) #w=alphabet & digit
print(x)
```

```
['T', 'h', 'e', 'r', 'a', 'i', 'n', 'i', 'n', '1', '2', '3', '4', '5']
```

In [23]:
```
text="The r@in in 12345$"
x=re.findall(r'\W',text) # W=non alphabet & digit
print(x)
```

```
[' ', '@', ' ', ' ', '$']
```

In [26]:
```
text="The r@in in 12345$"
x=re.findall(r'^T',text) # ^ starts with
print(x)
```

```
['T']
```

In [35]:
```
text="The r@in in 12345"
x=re.findall(r'2345$',text) # $ end with
print(x)
print(len(x))
```

```
['2345']
1
```

In [37]:
```
text="Hello helo heo he h o"
x=re.findall(r'h..o',text) #..  any two  char
print(x)
```

```
['helo']
```

In [39]:
```
text="Hello helo heo he h o"
x=re.findall(r'h.o',text) #.  any  char
print(x)
```

```
['heo', 'h o']
```

In [41]:
```
text="Hello helo heo he h or "
x=re.findall(r'h.*o',text) #.  any  char
print(x)
```

```
['helo heo he h o']
```

In [42]:
```
text="Hello helo heo he h or "
x=re.findall(r'h.?o',text) #.  any  char
print(x)
```

```
['heo', 'h o']
```

Out of course

In [44]:
```
text="Hello helo heo he h or "
x=re.findall(r'\A',text) # | or
print(x)
```

['']

In [3]:
```
text="The rain in spain"
x=re.findall(r'\AThe',text) # \A= Bigining
print(x)
```

['The']

In [4]:
```
text="The rain in spain"
x=re.findall(r'\Ai',text) # \A = Bigining
print(x)
```

[]

In [6]:
```
text="The rain in spain"
x=re.findall(r'\bin\b',text) # \b = can set boundries
print(x)
```

['in']

In [9]:
```
text="The rain in spain"
x=re.findall(r'\br.+n\b',text)
print(x)
```

['rain in spain']

In [7]:
```
text="The rain in spain"
x=re.findall(r'\bi',text)
print(x)
```

['i']

In [17]:
```
text="The rain in spain"
x=re.findall(r'\Bi...',text)
print(x)
```

```
['in i']
```

In [21]:
```
text="The rain in spain"
x=re.findall(r'in\Z',text)
print(x)
```

```
['in']
```

In [ ]:
```

```

In [23]:
```
s="black,blue and brown"
pat=r'bl\w+'
x=re.findall(pat,s)
print(x)
```

```
['black', 'blue']
```

In [24]:
```
s="Black,blue and brown"
pat=r'bl\w+'
x=re.findall(pat,s)
print(x)
```

```
['blue']
```

In [25]:
```
s="Black,blue and brown"
pat=r'bl\w+'
x=re.findall(pat,s,re.IGNORECASE)
print(x)
```

```
['Black', 'blue']
```

search()

In [26]:
```
s="black,blue and brown"
pat=r'bl\w+'
x=re.search(pat,s)
print(x)
```

```
<re.Match object; span=(0, 5), match='black'>
```

In [28]:
```
s="black,blue and brown"
pat=r'bl\w+'
x=re.search(pat,s)
print(x.group())
```

```
black
```

split()

In [30]:
```
s="black,blue and brown"
pat=r'bl\w+'
x=re.split(pat,s)
print(x)
```

```
['', ',', ' and brown']
```

In [ ]:
```

```

sub()

In [33]:
```
s="black,blue and brown"
pat=r'bl\w+'
x=re.sub(pat,'a',s)
print(x)
```

```
a,a and brown
```

In [ ]:
```
1
```