Sequence of Character

In [1]:
```python
from re import findall
```

1. \d - Return digits or Except String

In [8]:
```python
my_text = """my name is shyam, my mobile no is +91-9923090436 and
my email id is shyamamiblkar@gmail.com and my secon contact no is 1234567890 8
080425352"""

my_pattern = '\d{10}'
result = findall(my_pattern, my_text)
print(result, len(result))
```

```
['9923090436', '1234567890', '8080425352'] 3
```

2. \D - Except Numbers

In [18]:
```python
my_text = """my name is shyam, my mobile no is +91-9923090436 and
my email id is shyamamiblkar@gmail.com and my secon contact no is 1234567890 8
080425352"""

my_pattern = '\D{1,15}'
result = findall(my_pattern,my_text)
print(result, len(my_pattern))
```

```
['my name is shya', 'm, my mobile no', ' is +', '-', ' and \nmy email ', 'id
is shyamamib', 'lkar@gmail.com ', 'and my secon co', 'ntact no is ', ' '] 8
```

3. \w - combinatiion of characters and Numbers

In [26]:
```python
my_text = """my name is shyam, my mobile no is +91-9923090436 and
my email id is shyamamiblkar@gmail.com and my secon contact no is 1234567890 8
080425352 python123@gmail.com"""

my_pattern = '\w{7,13}' #[a-zA-Z0-9]
result = findall(my_pattern, my_text)
print(result, len(result))
```

```
['9923090436', 'shyamamiblkar', 'contact', '1234567890', '8080425352', 'pytho
n123'] 6
```

4. \W - Except string characters and numbers (Return special characters, whitespace)

```
In [31]: my_text = """my name is shyam, my mobile no is +91-9923090436 and
         my email id is shyamamiblkar@gmail.com and my secon contact no is 1234567890 8
         080425352 python123@gmail.com ##"""

         my_pattern = '\W{1}'

         result = findall(my_pattern, my_text)
         print(result, len(result))
```

```
[' ', ' ', ' ', ',', ' ', ' ', ' ', ' ', ' ', '+', '-', ' ', ' ', '\n', ' ',
 ' ', ' ', ' ', '@', '.', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', '@',
 '.', ' ', '#', '#'] 34
```

5. \s - whitespace

```
In [30]: my_text = """my name is shyam, my mobile no is +91-9923090436 and
         my email id is shyamamiblkar@gmail.com and my secon contact no is 1234567890 8
         080425352 python123@gmail.com"""

         my_pattern = '\s'

         result = findall(my_pattern, my_text)
         print(result,len(result))
```

```
[' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', '\n', ' ', ' ', ' ', ' ',
 ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '] 24
```

6. \S - Return splited string into a single characters

In [32]:
```python
my_text = """my name is shyam, my mobile no is +91-9923090436 and
my email id is shyamamiblkar@gmail.com and my secon contact no is 1234567890 8
080425352 python123@gmail.com"""

my_pattern = '\S'
result = findall(my_pattern, my_text)
print(result, len(result))
```

```
['m', 'y', 'n', 'a', 'm', 'e', 'i', 's', 's', 'h', 'y', 'a', 'm', ',', 'm',
'y', 'm', 'o', 'b', 'i', 'l', 'e', 'n', 'o', 'i', 's', '+', '9', '1', '-',
'9', '9', '2', '3', '0', '9', '0', '4', '3', '6', 'a', 'n', 'd', 'm', 'y',
'e', 'm', 'a', 'i', 'l', 'i', 'd', 'i', 's', 's', 'h', 'y', 'a', 'm', 'a',
'm', 'i', 'b', 'l', 'k', 'a', 'r', '@', 'g', 'm', 'a', 'i', 'l', '.', 'c',
'o', 'm', 'a', 'n', 'd', 'm', 'y', 's', 'e', 'c', 'o', 'n', 'c', 'o', 'n',
't', 'a', 'c', 't', 'n', 'o', 'i', 's', '1', '2', '3', '4', '5', '6', '7',
'8', '9', '0', '8', '0', '8', '0', '4', '2', '5', '3', '5', '2', 'p', 'y',
't', 'h', 'o', 'n', '1', '2', '3', '@', 'g', 'm', 'a', 'i', 'l', '.', 'c',
'o', 'm'] 137
```

Example:

1. PANCARD - ASDFG1234K
2. AADHARCARD - 1234 4567 8962
3. DL
4. IFSC CODE
5. MOBILE
6. VOTAR ID
7. CREDIT CARD NUMBER
8. DEBIT CARD NUMBER
9. EMAIL ID
9. WEB ADDRESS

In [33]:
```python
import re
```

In [35]:
```python
my_text = """my name is shyam, my mobile no is +91-9923090436 and
my email id is shyamamiblkar@gmail.com and my secon contact no is 1234567890 8
080425352 python123@gmail.com"""

my_num = re.findall('\d{10}',my_text)
print(my_num)
```

```
['9923090436', '1234567890', '8080425352']
```

In [44]:
```python
my_text = """my name is shyam, my mobile no is +91-9923090436 and
my email id is shyamamiblkar3@gmail.com and my secon contact no is 1234567890
 8080425352 python123@gmail.com @shyam.com"""

my_email = re.findall('[a-z]{2,15}[0-9]{1,5}[@]{1}[a-z.]{2,10}', my_text)
print(my_email)
```

['shyamamiblkar3@gmail.com', 'python123@gmail.com']

In [49]:
```python
my_text = """
1. shyamambilkar2@gmail.com
2. shyam.ambilkar2@gmail.com
3. shyam_ambilkar2@gmail.com
4. shyamambilkar1234@rediffmail.com
5. shyamambilkar5@gmail.co.in
6. shyamambilkar3@jspm.edu.in
7. shyamambilkar@gmail.com
8. ._shyamambilakar2@gmail.org"""

my_email = re.findall('[a-zA-Z_.]{2,20}[0-9]{1,10}[@]{1}[a-z.]{2,20}',my_text)
my_email
```

Out[49]:
```
['shyamambilkar2@gmail.com',
 'shyam.ambilkar2@gmail.com',
 'shyam_ambilkar2@gmail.com',
 'shyamambilkar1234@rediffmail.com',
 'shyamambilkar5@gmail.co.in',
 'shyamambilkar3@jspm.edu.in',
 '._shyamambilakar2@gmail.org']
```

In [69]:
```python
my_email = re.findall('[a-zA-Z0-9]{1,20}[._]{0,2}[a-zA-Z0-9]{1,20}[@]{1}[a-z.]{3,20}',my_text)
```

In [70]:
```python
my_email
```

Out[70]:
```
['shyamambilkar2@gmail.com',
 'shyam.ambilkar2@gmail.com',
 'shyam_ambilkar2@gmail.com',
 'shyamambilkar1234@rediffmail.com',
 'shyamambilkar5@gmail.co.in',
 'shyamambilkar3@jspm.edu.in',
 'shyamambilkar@gmail.com',
 'shyamambilakar2@gmail.org']
```

In [ ]: