

In [1]:

```
1 import re
```

In [2]:

```
1 # Characters Uses in RegEx
2 # [] - Set of characters
3 # \ - Special characters
4 # . - New line
5 # $ - ends with
6 # * - zero or more occurence
7 # + - one or more occurence
8 # ? - zero or one occurence
9 # {} - specifies the exact no. number
10 # | - Either or
11 # () - Group
12 # ^ - Starts with
```

In [3]:

```
1 para="Hi THIS Is Simran"           # For find small values
2 a=re.findall("[a-z]",para)
3 print(a)
```

```
['i', 's', 'i', 'm', 'r', 'a', 'n']
```

In [4]:

```
1 para="Hi THIS is SIMRAN"
2 a=re.findall("^Hi",para)           # To find the line starts with 'Hi'
3 print(a)
```

```
['Hi']
```

In [5]:

```
1 # using condtion
2 para="Today is a beautiful day"
3 a=re.search("^Today.*nights",para)
4 if a:
5     print("Correct")
6 else:
7     print("Not Correct")
```

```
Not Correct
```

In [6]:

```
1 para="Hi this is Simran"
2 a=re.search("^Hi",para)           # To check line starts with 'HI'
3 if a:
4     print("Yes it starts with word HI")
5 else:
6     print("It doesnt starts with HI")
```

```
Yes it starts with word HI
```

```
In [7]: 1 para="Hi this is Simran"
        2 a=re.findall("^Hello",para)
        3 if a:
        4     print("Yes it starts with word HI")
        5 else:
        6     print("It doesnt starts with word HI")
```

It doesnt starts with word HI

```
In [8]: 1 para="The running year is 2023"
        2 a=re.findall("\d",para)           # To find special characters
        3 print(a)
```

['2', '0', '2', '3']

```
In [9]: 1 para="The current month is March"
        2 a=re.findall("m.h",para)         # When give only one '.' it gives empty
        3 print(a)
```

[]

```
In [10]: 1 para="The current month is March"
        2 a=re.findall("m...h",para)
        3 print(a)
```

['month']

```
In [11]: 1 para="Hello, This is Simran"
        2 a=re.findall("Simran$",para)     # To check Line end with 'Simran'
        3 if a:
        4     print("Yes it ends with word Simran")
        5 else:
        6     print("It doesnt ends with word Simran")
```

Yes it ends with word Simran

```
In [12]: 1 para="Hello, This is Simran"
        2 a=re.findall("Pirjade$",para)
        3 print(a)
        4 if a:
        5     print("Yes it ends with word Simran")
        6 else:
        7     print("It doesnt ends with word Simran")
```

[]

It doesnt ends with word Simran

```
In [13]: 1 para="The current month is march"
          2 a=re.findall("m.*h",para)          # It take values from after 'm'
          3 print(a)
```

```
['month is march']
```

```
In [14]: 1 para="The current month is march"
          2 b=re.findall("ma.*h",para)
          3 print(b)
```

```
['march']
```

```
In [15]: 1 para="The current month is December"      # If want check either one or two m
          2 a=re.findall("March | April",para)
          3 if a:
          4     print("Yes it contains the word")
          5 else:
          6     print("It doesnt contains the word")
```

```
It doesnt contains the word
```

```
In [16]: 1 p="The current month is March"
          2 ab=re.search("March|April",p)
          3 if ab:
          4     print("Yes it contains the month")
          5 else:
          6     print("It doesnt contains the month")
```

```
Yes it contains the month
```

```
In [ ]: 1
```