```python
In [ ]:  # Regex ------> Regular expresssion


         Regex is a sequence of characters that form a search patthern

         regular expression is a set of characters which we can use to find and match o
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```python
In [3]:  import re
```

```python
In [6]:  text= "I love my country"

         patteren = "country"

         patteren_value = re.compile(patteren)

         s = patteren_value.search(text)
         print(s)
```

```
<re.Match object; span=(10, 17), match='country'>
```

```python
In [12]:  patteren_value = re.compile("country")
          s1 = patteren_value.search(text)
          print(s1)
          print(s1.start())
          print(s1.end())
          print(s1.span())
```

```
<re.Match object; span=(10, 17), match='country'>
10
17
(10, 17)
```

```python
In [9]:  print(re.compile("country").search(text))
```

```
<re.Match object; span=(10, 17), match='country'>
```

```python
In [15]:  sentence = "In 1980, Samsung acquired the Gumi-based Hanguk Jeonja Tongsin and
          # print(re.compile("Samsung").search(sentence))

          print(re.findall("Samsung",sentence))
```

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

In [17]:
```python
f = re.finditer("Samsung",sentence)
for i in f:
    print(i)
```

```
<re.Match object; span=(9, 16), match='Samsung'>
<re.Match object; span=(243, 250), match='Samsung'>
<re.Match object; span=(384, 391), match='Samsung'>
```

In [18]:
```python
f = re.split(" ",sentence)
print(f)
```

```
['In', '1980,', 'Samsung', 'acquired', 'the', 'Gumi-based', 'Hanguk', 'Jeonj
a', 'Tongsin', 'and', 'entered', 'telecommunications', 'hardware.', 'Its', 'e
arly', 'products', 'were', 'switchboards.', 'The', 'facility', 'was', 'develo
ped', 'into', 'the', 'telephone', 'and', 'fax', 'manufacturing', 'systems',
'and', 'became', 'the', 'center', 'of', "Samsung's", 'mobile', 'phone', 'manu
facturing.', 'They', 'have', 'produced', 'over', '800', 'million', 'mobile',
'phones', 'to', 'date.[21]', 'The', 'company', 'grouped', 'them', 'together',
'under', 'Samsung', 'Electronics', 'in', 'the', '1980s.']
```

In [20]:
```python
f = re.sub("Samsung","CNC Web World",sentence)
print(f)
```

```
In 1980, CNC Web WOrld acquired the Gumi-based Hanguk Jeonja Tongsin and ente
red telecommunications hardware. Its early products were switchboards. The fa
cility was developed into the telephone and fax manufacturing systems and bec
ame the center of CNC Web WOrld's mobile phone manufacturing. They have produ
ced over 800 million mobile phones to date.[21] The company grouped them toge
ther under CNC Web WOrld Electronics in the 1980s.
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In [ ]: