In [6]:
```
import re
txt="The rain in spain"
x=re.findall("\AThe",txt)
print(x)
if x:
    print("yes, there is a match!")
else:
    print("There is no match no match")
```

```
['The']
yes, there is a match!
```

In [9]:
```
match=re.search(r'portal','A computer science  portal for Education')
print(match)
print(match.group())
print('start index: ',match.start())
print('end index: ',match.end())
```

```
<re.Match object; span=(20, 26), match='portal'>
portal
start index:  20
end index:  26
```

In [10]:
```
print(re.findall(r'[Ee]ducation','Education of education: \A computer science porta
```

```
['Education', 'education', 'education']
```

In [13]:
```
print('Range',re.search(r'[a-zA-Z]','x'))
```

```
Range <re.Match object; span=(0, 1), match='x'>
```

In [14]:
```
x=range(3,6)
for n in x:
    print(n)
```

```
3
4
5
```

In [15]:
```
x=range(3,20,2)
for n in x:
    print(n)
```

```
3
5
7
9
11
13
15
17
19
```

In [16]:
```
print(re.search(r'[^a-z]','c'))
```

```
None
```

In [17]:
```
print(re.search(r'C[^l]','Class'))
```

```
None
```

In [20]:
```
match=re.search(r'^is','This is the month')
print('Beinning of String: ',match)
match=re.search(r'^is','is a month')
print('Beginning of string: ',match)
```

```
Beinning of String:  None
Beginning of string:  <re.Match object; span=(0, 2), match='is'>
```

In [22]:
```
match=re.search(r'education$','compute science portal for education')
print('end of string: ',match)
match=re.search(r'education$','compute science portal')
print('end of string: ',match)
```

```
end of string:  <re.Match object; span=(27, 36), match='education'>
end of string:  None
```

In [23]:
```
print('any character',re.search(r'p.th.n','python 3'))
```

```
any character <re.Match object; span=(0, 6), match='python'>
```

In [24]:
```
print('Color',re.search(r'colou?r','color'))
print('Color',re.search(r'colou?r','colour'))
```

```
Color <re.Match object; span=(0, 5), match='color'>
Color <re.Match object; span=(0, 6), match='colour'>
```

In [25]:
```
print('date{mm-dd-yyyy}: ',re.search(r'[\d]{2}-[\d]{2}-[\d]{4}','15-06-2023'))
```

```
date{mm-dd-yyyy}:  <re.Match object; span=(0, 10), match='15-06-2023'>
```

In [26]:
```
print('three digit: ',re.search(r'[\d]{3,4}','200'))
print('four digit: ',re.search(r'[\d]{3,4}','2020'))
```

```
three digit:  <re.Match object; span=(0, 3), match='200'>
four digit:  <re.Match object; span=(0, 4), match='2020'>
```

In [29]:
```
#[\d]{1, } none why?
print(re.search(r'[\d]{1,}','5th floor, B-218, \ sector-136 ,Noida ,Utter Pradesh-2
```

```
<re.Match object; span=(0, 1), match='5'>
```

In [35]:
```
grp=re.search(r'([\d]{2})-([\d]{2})-([\d]{4})','15-06-2023')
print(grp)
```

```
<re.Match object; span=(0, 10), match='15-06-2023'>
```

In [37]:
```
grp=re.search(r'([\d]{2})-([\d]{2})-([\d]{4})','15-06-2023')
print(grp.groups())
```

```
('15', '06', '2023')
```

In [38]:
```
grp=re.search(r'([\d]{2})-([\d]{2})-([\d]{4})','15-06-2023')
print(grp.group(3))
```

```
2023
```

In [40]:
```
grp=re.search(r'(?P<dd>[\d]{2})-(?P<mm>[\d]{2})-(?P<yyyy>[\d]{4})','15-06-2023')
print(grp.groupdict())
```

```
{'dd': '15', 'mm': '06', 'yyyy': '2023'}
```

In [42]:
```
print('negation: ',re.search(r'n[^e]','Python'))
print('lookahead: ',re.search(r'n(?!e)','Python'))
```

```
negation:  None
lookahead:  <re.Match object; span=(5, 6), match='n'>
```

In [46]:
```
print('positive lookahead: ',re.search(r'n(?=e)','Python'))
print('positive lookahead: ',re.search(r'n(?=e)','jasmine'))
```

```
positive lookahead:  None
positive lookahead:  <re.Match object; span=(5, 6), match='n'>
```

In [48]:
```
print(re.sub(r'([\d]{4})-([\d]{4})-([\d]{4})-([\d]{4})',r'\1\2\3\4','1111-2222-3333
```

```
1111222233334444
```

In [50]:
```
regex=re.compile(r'([\d]{2})-([\d]{2})-([\d]{4})')
print('compiled reg expr',regex.search('13-07-2023'))
print(regex.sub(r'\1.\2.\3','13-07-2023'))
```

```
compiled reg expr <re.Match object; span=(0, 10), match='13-07-2023'>
13.07.2023
```

In [ ]:
```

```