In [1]:

```
import re
pattern='^a...s$'
test_string='anjali'
result=re.match(pattern,test_string)
if result:
    print("search successful")
else:
    print("unsuccessful")
```

```
unsuccessful
```

In [2]:

```
import re
string="hello 11 hii 33 anjali 07."
pattern='\D+'
result=re.findall(pattern,string)
print(result)
```

```
['hello ', ' hii ', ' anjali ', '.']
```

In [3]:

```
import re
string="hello 11 hii 33. anjali 07"
pattern='\d+'
result=re.findall(pattern,string)
print(result)
```

```
['11', '33', '07']
```

In [4]:

```
result=re.split(pattern,string)
print(result)
```

```
['hello ', ' hii ', '. anjali ', '']
```

In [5]:

```
#maxsplit=1 by default 0
result=re.split(pattern,string,1)
print(result)
```

```
['hello ', ' hii 33. anjali 07']
```

In [6]:

```
match=re.search('\APython','Python is fun')
if match:
    print("pattern inside the string")
else:
    print("not found")
```

```
pattern inside the string
```

In [7]:

```
string="anjali is a good girl"
string1="Anjali"
match=re.search(string1,string)
if match:
    print("found")
else:
    print("not ound")
```

```
not ound
```

In [8]:
```
import re
string='39801 356, 2102 1111'
pattern='(\d{3}) (\d{2})'
match=re.search(pattern,string)
if match:
    print(match.group())
else:
    print("not found")
```

```
801 35
```

In [9]:
```
print(match.group(1))
```

```
801
```

In [10]:
```
match.group(1,2)
```

Out[10]:
```
('801', '35')
```

In [11]:
```
match.start()
```

Out[11]:
```
2
```

In [12]:
```
match.end()
```

Out[12]:
```
8
```

In [13]:
```
match.span()
```

Out[13]:
```
(2, 8)
```

In [14]:
```
match.string
```

Out[14]:
```
'39801 356, 2102 1111'
```

In [15]:
```
match.re
```

Out[15]:
```
re.compile(r'(\d{3}) (\d{2})', re.UNICODE)
```

In [16]:
```
print(re.findall(r'[Ee]ducation','Education of education: computer science portal f
```

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

In [17]:
```
print("range",re.search(r'[a-zA-Z]','x'))
```

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

In [18]:
```
x=range(3,6)
for n in x:
    print(n)
```

```
3
4
5
```

In [19]:

```
x=range(3,20,2)
for n in x:
    print(n)
```

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

In [20]:

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

```
None
```

In [21]:

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

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

In [22]:

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

```
None
```

In [23]:

```
match=re.search(r'^is','This is the month')
print("beginning of string",match)
```

```
beginning of string None
```

In [24]:

```
match=re.search(r'is','is the month')
print("beginning of string",match)
```

```
beginning of string <re.Match object; span=(0, 2), match='is'>
```

In [25]:

```
match=re.search(r'education$','computer science for education')
print('end of string',match)
```

```
end of string <re.Match object; span=(21, 30), match='education'>
```

In [26]:

```
print('any character',re.search(r'p.th.n','python 3'))
```

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

In [27]:

```
print("color",re.search(r'colou?r','color'))
```

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

In [28]:

```
print('colour',re.search(r'colou?r','colour'))
```

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

In [29]:

```
print("colour",re.search(r'colou?r','colouur'))
```

```
colour None
```

In [30]:

```
print('date{mm-dd-yyyy}',re.search(r'[\d]{2}-[\d]{2}-[\d]{4}','11-12-2002'))
```

```
date{mm-dd-yyyy} <re.Match object; span=(0, 10), match='11-12-2002'>
```

```
In [31]: print("date{mm-dd-yyyy}",re.search(r'[\d]{2}-[\d]{2}-[\d]{4}','2002-12-12'))
```

```
date{mm-dd-yyyy} None
```

```
In [32]: print('three digit:',re.search(r'[\d]{3,4}','189'))
```

```
three digit: <re.Match object; span=(0, 3), match='189'>
```

```
In [34]: print('three digit:',re.search(r'[\d]{3,4}','18933'))
```

```
three digit: <re.Match object; span=(0, 4), match='1893'>
```

```
In [42]: import re
         string='Ddd ddjjd 11 fff \n wwf fff'
         pattern='\S+'  #all whitespace characters
         replace=''
         new_string=re.sub(pattern,replace,string)
         print(new_string)
```

```
In [41]: import re
         string='anjali! what happned \n tell me 1'
         pattern='\S+'
         replace=''
         new_string=re.subn(pattern,replace,string)
         print(new_string)
```

```
('   \n   ', 6)
```

```
In [ ]:
```