

```
In [1]: import re
pattern = '!@#%&*(){}/a'
string = 'regex pattern matching'
result = re.match(pattern, string)
if(result):
    print('Search successful')
else:
    print('Search unsuccessful')
```

```
error                                Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp\ipykernel_15684\220830824.py in <module>
      2 pattern = '!@#%&*(){}/a'
      3 string = 'regex pattern matching'
----> 4 result = re.match(pattern, string)
      5 if(result):
      6     print('Search successful')
```

```
~\anaconda3\lib\re.py in match(pattern, string, flags)
    189     """Try to apply the pattern at the start of the string, returning
    190     a Match object, or None if no match was found."""
--> 191     return _compile(pattern, flags).match(string)
    192
    193 def fullmatch(pattern, string, flags=0):
```

```
~\anaconda3\lib\re.py in _compile(pattern, flags)
    302     if not sre_compile.isstring(pattern):
    303         raise TypeError("first argument must be string or compiled pattern")
--> 304     p = sre_compile.compile(pattern, flags)
    305     if not (flags & DEBUG):
    306         if len(_cache) >= _MAXCACHE:
```

```
~\anaconda3\lib\sre_compile.py in compile(p, flags)
    762     if isstring(p):
    763         pattern = p
--> 764     p = sre_parse.parse(p, flags)
    765     else:
    766         pattern = None
```

```
~\anaconda3\lib\sre_parse.py in parse(str, flags, state)
    946
    947     try:
--> 948         p = _parse_sub(source, state, flags & SRE_FLAG_VERBOSE, 0)
    949     except Verbose:
    950         # the VERBOSE flag was switched on inside the pattern.  to be
```

```
~\anaconda3\lib\sre_parse.py in _parse_sub(source, state, verbose, nested)
    441     start = source.tell()
    442     while True:
--> 443         itemsappend(_parse(source, state, verbose, nested + 1,
    444                             not nested and not items))
    445         if not sourcematch("|"):
```

```
~\anaconda3\lib\sre_parse.py in _parse(source, state, verbose, nested, first)
    547     this = source.get()
    548     if this is None:
--> 549         raise source.error("unterminated character set",
    550                             source.tell() - here)
    551     if this == "]" and set:
```

```
error: unterminated character set at position 12
```

```
In [2]: string = 'hello 12 hi 89. Howdy 34'
pattern = '\d+'

result = re.findall(pattern, string)
print(result)

['12', '89', '34']
```

```
In [3]: import re

pattern = '^a...s$'
test_string = 'abyss'
result = re.match(pattern, test_string)

if result:
    print("Search successful.")
else:
    print("Search unsuccessful.")
```

Search successful.

```
In [7]: import re

pattern = '!@#%&*()'
test_string = 'abc@gmail.com'
```

```

result = re.match(pattern, test_string)

if result:
    print("Search successful.")
else:
    print("Search unsuccessful.")

```

Search unsuccessful.

```

In [8]: import re
string = 'Your ID is: ABC123EFG'
pattern = '\d+'
res = re.findall(pattern, string)
print(res)

['123']

```

```

In [9]: import re
string = 'Your ID is: ABC123EFG456'
pattern = '\d+'
res = re.findall(pattern, string)
print(res)

['123', '456']

```

```

In [12]: import re
string = 'One:1 Two:2 Three:3'
pattern = '\d+'

res = re.split(pattern, string, 1)
print(res)

-----
AttributeError                                Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp\ipykernel_15684\2273063341.py in <module>
      3 pattren = '\d+'
      4
----> 5 res = re.spilt(pattern, string, 1)
      6 print(res)

AttributeError: module 're' has no attribute 'spilt'

```

```

In [11]: import re

string = 'Twelve:12 Eighty nine:89 Nine:9.'
pattern = '\d+'

# maxsplit = 1
# split only at the first occurrence
result = re.split(pattern, string, 1)
print(result)

['Twelve:', ' Eighty nine:89 Nine:9.']

```

```

In [13]: import re
string = 'One:1 Two:2 Three:3'
pattern = '\d+'

res = re.split(pattern, string, 1)
print(res)

['One:', ' Two:2 Three:3']

```

```

In [14]: import re
string = 'abc 824 dsf342 gr56 gfb65 '
pattern = '\s+'
replace = ''
new_str = re.subn(pattern, replace, string)
print(new_str)

('abc824dsf342gr56gfb65', 5)

```

```

In [15]: import re
string = 'abc 824 dsf342 gr56 gfb65 '
pattern = '\s+'
replace = ' '
new_str = re.subn(pattern, replace, string)
print(new_str)

('abc 824 dsf342 gr56 gfb65 ', 5)

```

```

In [16]: import re
string = 'abc 824 dsf342 gr56 gfb65 '
pattern = '\s+'
replace = '-'
new_str = re.subn(pattern, replace, string)
print(new_str)

('abc-824-dsf342-gr56-gfb65-', 5)

```

```

In [17]: import re
string = 'We have someone on the call here!'
pattern = '^we. *here$'

```

```
if(pattern):  
    print('Pattern found!')  
else:  
    print('Pattern not found!')
```

Pattern found!

```
In [18]: import re  
string = 'We have someone on the call here!'  
pattern = '^someone'  
if(pattern):  
    print('Pattern found!')  
else:  
    print('Pattern not found!')
```

Pattern found!

```
In [19]: import re  
string = 'We have someone on the call here!'  
pattern = 'on the call'  
if(pattern):  
    print('Pattern found!')  
else:  
    print('Pattern not found!')
```

Pattern found!

In []: