

## ENUMERATE FUNCTION

```
In [ ]: 1 pattern="string1"
        2 for i in range(len(pattern)):
        3     print(i,pattern[i])
```

```
In [ ]: 1 for pos,p in enumerate(pattern,1):
        2     print(pos,p)
```

```
In [ ]: 1 tuple(enumerate(pattern))
```

```
In [ ]: 1 print(dict(enumerate("string1")))
```

```
In [ ]: 1 list1=list(enumerate([1,2,3,4]))
        2 print(list1)
```

## REGX MODULE

```
In [ ]: 1 ''' RegEx, or Regular Expression, is a
        2 sequence of characters that
        3 forms a search pattern.
        4
        5 RegEx can be used to check if a string
        6 contains the specified search pattern.
        7
        8 '''
```

```
In [ ]: 1 import re
        2
```

```
In [ ]: 1 print('g\n\t*')
        2 print(r'g\n\t*')
```

```
In [ ]: 1 re.search(pattern,string)
```

```
In [ ]: 1 1.write a python program that matches a string contains
        2 1 followed by zero or more 0's
```

```
In [ ]: 1 pattern=r'10*'
        2 print(re.search(pattern,'abcd1000'))
```

```
In [ ]: 1 2.write a python program that matches a string contains 1 followed
        2 by one zero or more 0's
```

```
In [ ]: 1 pattern=r'10+'
        2 print(re.search(pattern, 'abcd1'))
```

```
In [ ]: 1 3.write a python program that matches a string
        2 contains a letter followed by zero or one 0's
```

```
In [ ]: 1 pattern=r'[a-z]0?'
        2 print(re.search(pattern, 'a0b100'))
```

```
In [ ]: 1 4.write a python program that matches a string
        2 contains a 1 followed by three 0's
```

```
In [ ]: 1 pattern=r'10{3}'
        2 print(re.search(pattern, 'ab100'))
```

```
In [ ]: 1 5.write a python program to find a sequence of
        2 lower case charachters joined with an _
```

```
In [ ]: 1 pattern=r'[a-zA-Z]+_[a-zA-Z]+'
        2 print(re.search(pattern, 'aAabc_def_hij'))
```

```
In [ ]: 1 6.check for the pattern dd-mm-yyyy
```

```
In [ ]: 1 pattern=r'\d{1,2}-\d{1,2}-\d{2,4}'
        2 print(re.search(pattern, '15-04-1996'))
```

```
In [ ]: 1 7.find the words with exactly 8 letters.
```

```
In [ ]: 1 pattern=r'[a-zA-Z]{8}'
        2 print(re.search(pattern, 'pythoninguiyft'))
```

```
In [ ]: 1 pattern=r'\w{8}'
        2 print(re.search(pattern, 'This is python tutorial'))
```

```
In [ ]: 1 8.find a string ending with python.
```

```
In [ ]: 1 pattern=r'python$'
        2 print(re.search(pattern, 'This tutorial is about python'))
```

```
In [ ]: 1 pattern=r'python$'
        2 print(re.search(pattern, 'This tutorial is about python and javascript'))
```

```
In [ ]: 1 9.Search the string to see if it starts with "This" and ends with "Pyth
```

```
In [ ]: 1 pattern=r'^This.*Python$'
        2 print(re.search(pattern, 'This tutorial is about Python'))
```

In [ ]:

1