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In [1]: 1 import re
```

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In [2]: 1 # findall
2 txt = "I like python coding, python has simple syntax"
3 x = re.findall("python",txt)
4 print(x)

['python', 'python']
```

```
In [3]: 1 txt1 = "I like coding"
2 x1 = re.findall("python",txt1)
3 print(x1)

[]
```

```
In [4]: 1 # Search
2 txt = "I like python coding, python has simple syntax"
3 x = re.search("python",txt)
4 print(x)

<re.Match object; span=(7, 13), match='python'>
```

```
In [5]: 1 txt1 = "I like python coding, python has simple syntax"
2 x1 = re.search("\s",txt)
3 print(x1)

<re.Match object; span=(1, 2), match=' '>
```

```
In [6]: 1 # split
2 txt = "I like python coding, python has simple syntax"
3 x = re.split(",",txt)
4 print(x)

['I like python coding', ' python has simple syntax']
```

```
In [7]: 1 # sub
2 txt = "I like python coding, python has simple syntax"
3 x = re.sub("\s","**", txt)
4 print(x)

I**like**python**coding,**python**has**simple**syntax
```

```
In [ ]: 1
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```
In [8]: 1 txt = "I like python coding, python has simple syntax"
2 x = re.findall("[a-d]", txt)
3 print(x)

['c', 'd', 'a', 'a']
```

```
In [9]: 1 txt = "I like python coding, python has simple syntax 100"
2 x = re.findall("\d", txt)
3 print(x)

['1', '0', '0']
```

```
In [10]: 1 txt = "I like python coding, python has simple syntax"
2 x1 = re.findall("pyt..n", txt)
3 print(x1)

['python', 'python']
```

```
In [11]: 1
2 txt = "hello world"
3 x1 = re.findall("he..o", txt)
4 print(x1)

['hello']
```

```
In [12]: 1 txt = "I like python coding, python has simple syntax"
2 x1 = re.findall("pyt..n", txt)
3 print(x1)

['python', 'python']
```

```
In [13]: 1 txt = "hit I like python coding,python has simple syntax"
2 x1 = re.findall("^hi", txt)
3 print(x1)

['hi']
```

```
In [14]: 1 txt = "Hiii I like python coding, python has simple syntax"
2 x1 = re.findall("syntax$", txt)
3 print(x1)

['syntax']
```

```
In [15]: 1 txt = "Hiii I like python coding, python has simple syntax"
2 x1 = re.findall("java$", txt)
3 print(x1)

[]
```

```
In [16]: 1 txt = "hello india"
2 x1 = re.findall("he.*o", txt)
3 print(x1)

['hello']
```

```
In [17]: 1 txt = "hello india"
2 x1 = re.findall("he.+o", txt)
3 print(x1)

['hello']
```

```
In [18]: 1 #txt = "hello india"
2 #x1 = re.findall("he.?o", txt)
3 #print(x1)
```

```
In [19]: 1 txt = "hello india"
2 x1 = re.findall("he.{2}o", txt)
3 print(x1)

['hello']
```

```
In [20]: 1 txt = "Hiii I like python coding, Python has simple syntax"
2 x1 = re.findall("python|Py|simple|coding", txt)
3 print(x1)

['python', 'coding', 'Py', 'simple']
```

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In [ ]: 1
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In [21]: 1 import re
```

```
In [22]: 1 txt = "python is useful coding language "
2 x = re.findall("\Apython",txt)
3 print(x)

['python']
```

```
In [23]: 1 txt = "python is useful coding language "
2 x = re.findall(r"\bpython",txt)
3 print(x)

['python']
```

```
In [24]: 1 txt = "python is useful coding language "
2 x = re.findall(r"\Bpython",txt)
3 print(x)

[]
```

```
In [25]: 1 txt = "python is useful coding language_ @ &"
2 x = re.findall(r"\w",txt)
3 print(x)

['p', 'y', 't', 'h', 'o', 'n', 'i', 's', 'u', 's', 'e', 'f', 'u', 'l', 'c',
'o', 'd', 'i', 'n', 'g', 'l', 'a', 'n', 'g', 'u', 'a', 'g', 'e', '_']
```

```
In [26]: 1 txt = "python is useful coding language_ @ &"
2 x = re.findall(r"\W",txt)
3 print(x)

[' ', ' ', ' ', ' ', ' ', ' ', '@', ' ', '&']
```

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In [ ]: 1
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In [27]: 1 txt = "python coding language"
2 x = re.findall("[spqat]",txt)
3 print(x)

['p', 't', 'a', 'a']
```

```
In [28]: 1 txt = "python coding language"
2 x = re.findall("[a-f]",txt)
3 print(x)

['c', 'd', 'a', 'a', 'e']
```

```
In [29]: 1 txt = "python coding language"
          2 x = re.findall("[^spqat]",txt)
          3 print(x)

['y', 'h', 'o', 'n', ' ', 'c', 'o', 'd', 'i', 'n', 'g', ' ', 'l', 'n', 'g', 'u', 'g', 'e']
```

```
In [30]: 1 txt = "python coding language 18"
          2 x = re.findall("[0123]",txt)
          3 print(x)

['1']
```

```
In [31]: 1 txt = "python coding language 18"
          2 x = re.findall("[0-9]",txt)
          3 print(x)

['1', '8']
```

```
In [32]: 1 txt = "python 45 coding language 18"
          2 x = re.findall("[0-9][0-9]",txt)
          3 print(x)

['45', '18']
```

```
In [33]: 1 txt = "python 45 coding language 18"
          2 x = re.findall("[a-zA-Z]",txt)
          3 print(x)

['p', 'y', 't', 'h', 'o', 'n', 'c', 'o', 'd', 'i', 'n', 'g', 'l', 'a', 'n', 'g', 'u', 'a', 'g', 'e']
```

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In [ ]: 1
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In [ ]: 1
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