

Python Regular expressions

Rules to create a pattern

PART-1



Python Scripting for Automation

(Automate your repetitive tasks with python scripting)

Regular Expressions (RegEx):

- The regex is a procedure in any language to look for a specified pattern in a given text.
- re is the module to perform regex in Python. (use **import re** in scripts)
- There are different operations in re like:
 - search, match, finditer, findall, split, sub etc...
- Syntax:
 - re.search(pattern, text)
 - re.match(pattern, text)
 - re.finditer(pattern, text)
 - re.findall(pattern, text)
- **Pattern** is a sequence of characters, which represent multiple strings.
- Simple examples for pattern:
 - "Python"
 - "Python[23]" ➔ "Python2" "Python3"
 - r"Python" or r"Python[23]"

Learning pattern creation with **findall** operation:

How to use **findall** ?

```
import re  
print(re.findall(pattern,text))
```

Rules to create a pattern:

`a` , `x` , `9` - Ordinary characters that match themselves

`[abc]` - Matches `a` or `b` or `c`

`[a-c]` - Matches `a` or `b` or `c`

`[a-zA-Z0-9]` - Matches any letter from (`a` to `z`) or (`A` to `Z`) or (`0` to `9`)

`\w` - Matches any single letter, digit or underscore

`\W` - Matches any character not part of `\w`

`\d` - Matches decimal digit 0-9

`.` - Matches any single character except newline character

Note: Use `\.` to match `.`

Thank you