

Regular expressions (Regex)

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Pattern matching means, finding specific pattern inside a string

Heloo myname is murali mohan
I am from bangalore
Today date is 21-01-2026
20-01-2025
20-jan-2025
01/december-2026
Email is murali@gmail.com

Pattern --> 2digits-twodigits-4digits
2diddigits/character-4digits

21-20-2026
21-01-2025
01/december-2026

There are only 4 steps to be followed in order to use Regular Expressions in python:

1. Import re module which is the Regular Expressions module in python. All the functions and features required to perform regular expression search in python can be accessed by importing the re module.

2. Next steps is to create the Regular Expressions Pattern. Pattern is basically the format or structure of the string that we are trying to search. In Regular Expressions, we have several different character classes, symbols and special characters which will help us to identify every kind of characters or symbols hence making it possible to define a pattern to search of any type of string.

3. Once the pattern is defined, next step is to search for this pattern in the given text or data. 4. Finally, we extract all the matched string.

4. extracting matched patterns and print or do any operations

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# 1.import re module is for regular expressions in python.all the functions
# and feautures required to perform regular expressions ,searching
# 2.next you need to creatr Regular Expression pattern .
# 3.match the data by the patter
# 4.extract the data whihc is given in the pattern
import re #1
# text= "my phone number is 9855252522 96523252352"
# pattern=r"\d{10}" #2
# match=re.search(pattern,text) #search method can return only at first occurance
# print("found:", match.group()) #group( itg grouped all the matteched patterns
# and return without modulename)

# text= "my Phone number is 9855252522 96523252352"
# pattern=re.compile(r"\d")
# matches=pattern.finditer(text) #used to iterate all other patterns also
# for match in matches:
```

```

#     print(match.group())
# text = """
# Hi, today is 17-Apr-2021, yesterday was 16-Apr-2021 and tomorrow will be 18-
# Apr-2021.
# My schedule is free on 20-Apr-2021, 05.05.2021 and 16/Jun/2021.
# You can reach out to me at myname2020@dummy.com or ask_help@demo.net &
# conference@demo.co.in.
# You can also call me at one of the following no's +6382-087 1212, +6999.100
# 3344, 017-999808 etc.
# """
# datepattern=re.compile(r'\d{2}-[a-zA-Z]{3}-\d{4}') #2
# matches=datepattern.finditer(text) #3
# for match in matches:
#     print(match.group())
# datepattern=re.compile(r'\d{2}[-/.]([a-zA-Z]{3}|\\d{2})[-/.]\\d{4}') #2
# matches=datepattern.finditer(text) #3
# for match in matches:
#     print(match.group())
text = """
Hi, today is 17-Apr-2021, yesterday was 16-Apr-2021 and tomorrow will be 18-
Apr-2021.
My schedule is free on 20-Apr-2021, 05.05.2021 and 16/Jun/2021.
You can reach out to me at myname2020@dummy.com or ask_help@demo.net &
conference@demo.co.in.
You can also call me at one of the following no's +6382-087 1212, +6999.100 3344,
017-999808 etc.
"""
emailpattern=re.compile(r'\w+@[a-z]+(\.[a-z]{2,3})+')
matches=emailpattern.finditer(text)
for match in matches:
    print(match.group())

```