

Regular Expressions

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Regular expressions are used to create an expression to match the pattern in the data.

Eg:

For mail id: @ is mandatory

For mobile number: 10 digits are required

Syntax:

1. [A - Z] : To match 1 character between A to Z.
2. [a - z] : To match 1 character between a to z.
3. [0 - 9] or \d : To match 1 digit between 0 to 9.
4. [A-Z a-z]: To match any 1 character between A to Z or a to z.
5. [A-Z a-z 0-9] : To match any 1 character between A to Z or a to z or 0 to 9.
6. [A-Z]{n}: To match n character between A to Z.
7. [A-Z]{m,n}: To match character in between given range from A to Z .
8. \ : Used to remove the special meaning of the special character(apart from '-' every special character is considered for special meaning.
Eg: * , \#
9. + : To match the pattern from 1 to n characters
10. * : To match the pattern from 0 to n characters
11. ? : Either 0 or 1 character

For getting the data, import re is required.

- i. Finditer(): It is used to get the index of matched record from the data.
Var= re.finditer('pattern', data)
- ii. Findall(): It is used to find all the matched records from the data.
Var=re.findall('pattern', data)

Data=

Join our Regular Expressions workshop on 15th August 2025, from 10:00 AM to 12:00 PM.

For queries, contact +91-9876543210 or email

regex.training@example.com. Learn pattern matching, validation, and text extraction

effectively in Python, JavaScript, and more, with hands-on examples and interactive practice.

Eg:

data="Join our Regular Expressions workshop on 15/08/2025, from 9:00 to 12:00.
ABCDE1234S

For queries, contact 9876543210 or email: regextraining@example.com . Learn pattern matching from www.inter.in, validation, and text extraction effectively in Python, JavaScript, and more, with hands-on 14/Aug/2025 examples and interactive practice 6789543210 www.gspiders.com."

```
#to find the mobile number
```

```
""  
import re  
res=re.findall('[6-9][0-9]{9}',data)  
print(res)  
""
```

```
#to find the date
```

```
""  
import re  
res=re.findall('[0-9]{2}/[0-9]{2}/[0-9]{4}',data)  
print(res)  
  
import re  
res=re.findall('[0-9]{2}/[A-Z a-z]{3}/[0-9]{4}',data)  
print(res)  
""
```

```
#to match time
```

```
""  
import re  
res=re.findall('[0-9]{1,2}\:[0-9]{2}',data)  
print(res)  
""
```

```
#to match website
```

```
""  
import re  
res=re.findall('www\.[A-Z a-z]+\.[a-z]{2,3}',data)  
print(res)  
""
```

```
#to match email
```

```
""  
import re  
res=re.findall('[A-Z a-z 0-9]+\@[a-z]+\.[a-z]{2,3}',data)  
print(res)  
""
```

```
#to find pan number
```

```
""  
import re  
res=re.findall('[A-Z]{5}[0-9]{4}[A-Z]',data)  
print(res)  
""
```