

# Getting multiple inputs from user

- Using [split\(\)](#) method :

- splits a string into an array of substrings.

`input().split(separator, limit)`

- separator - Optional. Specifies the separator to use when splitting the string. By default any whitespace is a separator.
- maxsplit-Optional, Specifies how many splits to do. Default value is -1, which is "all occurrences".

```
x, y = input().split()
```

```
print(x)
```

```
print(y)
```

```
>>>12 34
```

```
12
```

```
34
```

# Ex.

```
x, y = input("Enter a two value: ").split()  
print("Number of boys: ", x)  
print("Number of girls: ", y)
```

Enter a two value: 1 2

Number of boys: 1

Number of girls: 2

```
x, y, z = input().split(", ", 2)  
print(x)  
print(y)  
print(z)
```

1,2,3

1

2

3

```
x=[]  
x = list(map(int, input().split()))  
print(x)
```

```
1 2 3 4 5  
[1, 2, 3, 4, 5]
```

```
x=[]  
x = list(map(int, input("Enter a multiple value: ").split()))  
print("List of students: ", x)
```

```
Enter a multiple value: 1 2 3  
List of students: [1, 2, 3]
```

```
x=()
x = tuple(map(int, input().split()))
print(x)
```

```
1 2 3
(1, 2, 3)
```

```
x={}
x = set(map(int, input().split()))
print(x)
```

```
1 2 3
{1, 2, 3}
```

# Regex (.)

```
import re
```

```
if re.match("f.o", "fooooo"):
    print("Matched")
else:
    print("Not matched")
```

Matched

```
import re
```

```
if re.search("f.o", "fooooo"):
    print("Matched")
else:
    print("Not matched")
```

Matched

# Regex (.)

```
import re
if re.match("f.o", "vit fooooo"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

```
import re
if re.search("f..o", "vit fX1 ooo"):
    print("Matched")
else:
    print("Not matched")
```

Matched

# Regex (\$)

```
import re
if re.match("f.o$", "hi all foo all"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

```
import re
if re.search("f.o$", "hi all foo all"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

# Regex (\$)

```
import re
if re.match("f.o$", "all foo"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

```
import re
if re.search("f.o$", "all foo"):
    print("Matched")
else:
    print("Not matched")
```

matched



# Regex (\$)

```
import re
if re.match("f.o$", "foo"):
    print("Matched")
else:
    print("Not matched")
```

matched

```
import re
if re.search("f.o$", "hggh gh foo"):
    print("Matched")
else:
    print("Not matched")
```

matched

# Regex (^)

```
import re
if re.match("^f.o","foo vit"):
    print("Matched")
else:
    print("Not matched")
```

matched

```
import re
if re.search("^f.o","foo vit"):
    print("Matched")
else:
    print("Not matched")
```

matched

# Regex (^)

```
import re
if re.match("^f.o","xyz foo vit"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

```
import re
if re.search("^f.o","xyz foo vit"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

# Regex ([ ]) 0-9 a-z A-Z

```
import re
if re.match("f.[0-9][a-c]", "abc fo5a vit"):
    print("Matched")
else:
    print("Not matched")
if re.match("f.[0-9][a-c]", "fo5a vit"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

Matched

```
import re
if re.search("f.[0-9x-zmf][a-c]", "abc fo5a vit"):
    print("Matched")
else:
    print("Not matched")
```

Matched

# Regex ([^])

```
import re
if re.match("f.[0-9][^a-c]", "fo5a vit"):
    print("Matched")
else:
    print("Not matched")
if re.match("f.[0-9][^a-c]", "fo5X vit"):
    print("Matched")
else:
    print("Not matched")
Not matched
Matched
```

```
import re
if re.search("f.[0-9][^a-c]", "vit fo5a vit"):
    print("Matched")
else:
    print("Not matched")
if re.search("f.[0-9][^a-c]", "vit fo5X vit"):
    print("Matched")
else:
    print("Not matched")
Not matched
Matched
```

# Regex ([^])

```
import re
if re.match("f.[0-9][^a-c]", "xyz fo5a vit"):
    print("Matched")
else:
    print("Not matched")
if re.match("f.[0-9][^a-c]", "xyz fo5X vit"):
    print("Matched")
else:
    print("Not matched")
Not matched
Not matched
```

```
import re
if re.search("f.[0-9][^a-c]", "xyz fo5a vit"):
    print("Matched")
else:
    print("Not matched")
if re.search("f.[0-9][^a-c]", "xyz fo5X vit"):
    print("Matched")
else:
    print("Not matched")
```

Not matched  
Matched

# Regex (?) – 0 or 1

```
import re
if re.match("f.[0-9][a-z]?", "xyz fo51 vit"):
    print("Matched")
else:
    print("Not matched")
if re.match("f.[0-9][a-z]?", "fo5x vit"):
    print("Matched")
else:
    print("Not matched")
if re.match("f.[0-9][a-z]?", "xyz foXX vit"):
    print("Matched")
else:
    print("Not matched")
```

Not matched

Matched

Not matched

```
import re
if re.search("f.[0-9][a-z]?", "xyz fo51 vit"):
    print("Matched")
else:
    print("Not matched")
if re.search("f.[0-9][a-z]?", "xyz fo5x vit"):
    print("Matched")
else:
    print("Not matched")
if re.search("f.[0-9][a-z]?", "xyz foXX vit"):
    print("Matched")
else:
    print("Not matched")
```

Matched

Matched

Not matched

# Regex (\*) – 0 or more

```
import re
```

```
if re.match("f.[0-9][a-z]*", "fo5 vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]*", "fo5x vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]*", "fo5X vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

Matched

Matched

Matched

Note:

more here means at least once



# Regex (+) – 1 or more

```
import re
```

```
if re.match("f.[0-9][a-z]+", "fo5 vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]+", "fo5x vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]+", "fo5aa vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

Note:

more here means at least once

Not Matched

Matched

Matched

# Regex {}

```
import re
```

```
if re.match("^q.[0-9][a-z]{2}", 'qx8aa'):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]{4}", "fo5x vit"): ->f.[0-9][a-z][a-z][a-z][a-z]
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]{2}", "fo5aaa vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

Matched

Not matched

Matched

# Regex {n,m}

```
import re
```

```
if re.match("^q.[0-9]{2}[a-z]{2,5}", 'qx8aa'):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]{2,5}", "fo5x vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]{2,5}", "fo5aaaaaaaaaaaaaaaaa vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

```
if re.match("f.[0-9][a-z]{2,5}", "fo5a aaa vit"):
```

```
    print("Matched")
```

```
else:
```

```
    print("Not matched")
```

Matched

Not matched

Matched

Not matched

Note:

N times or more than n times.

M don't play any roll