

Regular Expression:-

Regular Expressions are mainly used for pattern matching.

```
Ex: import re
```

```
matcher = re.finditer("[abc]", "dharmaaa 12 34 Df $#@")
```

```
for match in matcher:
```

```
    print(match.start(), ".....", match.group())
```

o/p: 2....a

5....a

6....a

7....a

8....a

Since here it checking abc are available & where it is available at which position they are available.

```
Ex: import re
```

```
matcher = re.finditer("[@]", input("enter "))
```

```
for match in matcher:
```

```
    print(match.start(), ".....", match.group())
```

o/p: enter 123@45

4....@

Matcher is an iterator object, let

```
import re
```

```
matcher = re.finditer("[@]", input("enter?"))
```

```
print(matcher)
```

o/p: enter 123@45

↳ callable_iterator object at 0x0000278279D30760 >

```
import re
matcher = re.finditer("[a-zA-Z0-9]", "abcAC34.$")
print(matcher)
```

for match in matcher:

```
    print(match.start(), ".....", match.group())
```

O/p: try it yourself.

```
import re
```

```
matcher = re.finditer("[a-zA-Z0-9]", "abcABC123.$")
print(matcher)
```

for match in matcher:

```
    print(match.start(), ".....", match.group())
```

O/p :- <callable_iterator object at 0x0001893CA0>

10.....

11.....

12.....\$

Note :- re module is mandatory.

```
import re
```

```
pattern = input("enter the pattern to check")
m = re.match(pattern, "abbaabba")
```

```
if m != None
```

```
    print("Match is available")
```

O/p :- enter the pattern to check abba
Match is available.

```
import re
pattern = input("Enter the pattern to check")
m = re.fullmatch(pattern, "abba")
if m != None:
    print("full match is available")
```