A RegEx, or Regular Expression, is a sequence of characters that forms a search pattern.

RegEx can be used to check if a string contains the specified search pattern.

## RegEx Module

Python has a built-in package called re, which can be used to work with Regular Expressions.

Import the re module:

Metacharacters:-

Metacharacters are characters with a special meaning:

|  |  |  |
| --- | --- | --- |
| **Character** | **Description** | **Example** |
| [] | A set of characters | "[a-m]" |
| \ | Signals a special sequence (can also be used to escape special characters) | "\d" |
| . | Any character (except newline character) | "he..o" |
| ^ | Starts with | "^hello" |
| $ | Ends with | "planet$" |
| \* | Zero or more occurrences | "he.\*o" |
| + | One or more occurrences | "he.+o" |
| ? | Zero or one occurrences | "he.?o" |
| {} | Exactly the specified number of occurrences | "he{2}o" |
| | | Either or | "falls|stays" |
| () | Capture and group |  |