meaning that we will

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REGULAR EXPRESSION:

A regular expression specifies a set of strings that matches it, the functions in this module let you check if a particular string matches a given regular expression (or if a given regular expression matches a particular string, which comes down to the same thing)

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APPLICATIONS OF REGULAR EXPRESSIONS:

- 1. Extraction of emails from a text docume--nt.
- 2. Regular Expressions for web scraping (Data collection)

3. Working with Date-Tilme features.

4. Using Regex for Text Rue-processing (NIP)

In simple,

4 validations of form in any online application

4 Pattern matching applications

Ex: ctrl+F → interpreter

1> compilers, interpreters.

4 TCP/IP, UDP

4 Web scraping.

TCP/IP - TRANSMISSION CONTROL PROTOCOL/INTERNE PROTOCOL

A standard internet communications

Protocol that allow digital computers to

communicate over long distances.

(Data collection)

UDP-USER DATA PROTOCOL: (49)

A communications protocol that facilitates the exchange of messages between computing devices in a network. It's an alternative to the transmission control protocol (TCP).

In a network that uses the Internet Protocol (IP), it is sometimes referred a to as UDP/IP.

METACHBRACIERS:

These are considered as the building blocks of regular expressions.

+ these are the patterns used to match character combinations in the strings.

It has a special meaning in finding patterns and we mostly used to define the search criteria and any text manipulations.

Metachareactures and its meaning:

[] + A set of characters

\ → Signals a special sequence '
(can also be used to escape special
characters)

· -> Any character (except newline character)

1 -> Starts with

\$ -> Ends with

* -> Zero or more occurances

+ -> One or more occurances

€3 → Excatly the specified number of occurances.

1 -> Elther or / start of alternative branch

() -> capture o and group.

? -> extends the meaning of (, or o/1
quantifler, or quantifler minimizer

A character class or a character set, is a set of characters part in square brackets.

17 the regex engine matches only one out of several characters in the character class or character set.

It we place the characters we want to match between square brackets.

USER-DEFINED CLASSES:

- \rightarrow [0-9] matches a single digit between 0 and 9.
- \rightarrow [a-z] matches a single alphabet between a and z which over lower cases \rightarrow [A-Z] matches a single aphabet between A and z which are in upper cases.
- →[a-zp-zo-9]-matches alphanumerical characters

→[^abc] - match viest all alphabetheal letters except a, b, c

PRE-DEFINED CHARACTER CLASSES:

- \A Retwers a match If the specified characters are at the beginning of the string.
- No-Returns a match where the specified characters are at the beginning or at the end of the word.
- \B- Retwers a match where the specified characters are present, but NOT out the beginning (or at the end) of a word.

- 1d Retwens a match where the string contains dégits (numbers from 0-9)
- 1D-Retwens a match where the string DOES NOT contain dégits.
- \s Retwers a match where the string contains a white space character.
- 13- Retwens a match where the string boes NOT contain a white space character.
- \w- Returns a match where the string contains any word characters (from a-z, p-z, digits from 0-9, and the underscore (_))
- W-Retwens a match where the string

 DOES NOT contain any word characters,

 digits and underscore (^a-zA-zo-9)

SOL ST WHEEL THE

\Z-Returns a match if the specified

characters are at the end of the string.

It - Returns a match of tab character.

in-Returns a match of a line-feed (new line) character.

QUANTIFIERS:

A quantifier has the form &m,n3 where m and n are the minimum and marinum times the expression to which the quantifier applies must match.

contains a white spice

S. Retusins la monach icheres

Example:

Both eq1,13 eq1,13 and eq2,23 match feel, but nelthere matches felt.

- * The component must be present either zero or more times.
- $+ \rightarrow$ The component must be present either one or more times.

? - The component must be present either zero or one time.

 ${n} \rightarrow {n} \rightarrow {n}$ the component must be present 'n'

 $\{n, \} \rightarrow$ the component must be present at least 'n' times.

 $\{n,m\} \rightarrow \text{the component must be present}$ at least 'n' times and no more than m times.

4 hbûte a Regular Expression pattern for Rython Identifier.

$$\rightarrow \left[\left[-\alpha - 3A - Z \right] \backslash w + \right]$$

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