

Assignment no. 10

Q.1 what is regular expression? Explain different Python functions to search in regular expressions.

Ans- Regular Expressions-

Regular Expressions can be used to check if a string contains the specified search pattern. Regular Expression is a sequence of characters that forms a search pattern.

Expressions can include Text matching, Repetition, branching and pattern-composition etc.

Python supports regular expressions through libraries. It supports various things like modifier, identifiers and white space characters.

⇒ Python has a built-in package called "Re" for regular expressions.

Syntax: `import re`

S.No	Function	Description
1.	Match	It matches the given pattern in a string, If found then gives true, else false
2.	Search	It returns the match object. If there is a match found

3. Findall

in the string.
It returns a list that contain all the matches of a pattern in the string.
4. split
returns a list in which the string has been split in each match.

5. sub

replace one or more matches in the string.

import re

str = "How are you. How is everything".

matches = re.findall("How", str)
print(matches)

Output →

['How', 'How']