Regular expressions:

* A regular expression is an object that describes a pattern of characters.
* Regular expressions are used to perform pattern-matching and "search-and-replace" functions on text.
* Syntax:

/*pattern*/*modifiers*;

* Example:

<script>

function regular()

{

var a="Use w3school tutorial to learn js";

var pattern=a.search(/TUTORIAL/i);

document.getElementById('1').innerHTML=pattern;

}

</script>

Output : 13.

Expression flags:

* The action of making known one's thoughts or feelings. An **expression** is any valid set of literals, variables, operators, and **expressions** that evaluates to a single value. The value may be a number, a string, or a logical value.
* It is a variable you can use to control the flow of a function or statement.
* A flag is a variable used to have some value until some condition becomes true, then we change it to false and print the output (Initially flag considered as true).

Ex:

Int flag=0;

If(condition)

{

Flag=1;\\Condition true….

Print flag;

}

Else

{

Flag=0;\\condition false…

}

Character positions:

* Character position means condition reference to place or location.
* Using this one to find the particular word position.
* Finding the character position from the list of characters is difficult. So use functions.

Repeating Characters:

* The Repeating Characters rule rejects passwords that contain excessive character repetition.
* The repeat() method constructs and returns a new string which contains the specified number of copies of the string on which it was called, concatenated together.
* It will return new string that containing the specified number of copies of the given string.
* Repeating character means repeat that character multiple times.

Escape Sequences:

* An escape sequence is a sequence of characters that does not represent itself when used inside a character or string literal, but is translated into another character or a sequence of characters that may be difficult or impossible to represent directly.
* An escape sequence refers to a combination of characters beginning with a back slash (\) followed by letters or digits.
* Escape sequences represent non-printable and special characters in character and literal strings.
* As such, they allow users to communicate with a display device or printer by sending non-graphical control characters to specify actions like question marks and carriage returns An escape sequence is used when writing sections of code.
* For example, \n is an escape sequence that denotes a [newline](https://en.wikipedia.org/wiki/Newline) character.

Escape sequence list are:

\a

\n

\t

\\

\v

\’ and \” etc.

Alternate patterns & grouping:

* Alternate means another or option. Alternate pattern means if some pattern is failed then use another patterns.
* Grouping means join the all values. That is, A set of objects combined in a group.