-------------------------------------------------------------

RegEx:

```````````

Operators:

```````````````

=~ : Match

!~ : Not Match

$string =~ //;

$string =~ m/WORD/; [m : match]

$string =~ s/search/replace/; [s : substitute]

Modifiers:

``````````````

$string =~ //m; [m : treat as multiple line]

$string =~ //s; [s : treat as single line]

$string =~ //i; [i : case insensitive]

$string =~ //x; [x : Allow whitespace]

$string =~ //g; [g : match globally]

$string =~ //e; [e : execute code]

\ : escape next metachar

. : match to any char(except \n)

+ : match to one or more chars

\* : match to zero or more chars

? : match to one or zero chars

^ : match the beginning of line

$ : match end of line

| : Alternation (or)

() : Grouping

[] : Bracketed char class [0-9a-zA-Z]{2}

{n} : Match exactly n times

{n,} : Match at least n times

{n,m} : Match at least n but not more than m times

\w : Match to word char

\W : Match to NON-word chars

\d : Match to digits

\D : Match to NON-digits

\s : Match to whitespace

\S : Match to NON-whitespace

\b : Match to word boundary

\t : tab

\n : newline

\r : return

\e : escape

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Match a word/string:

````````````````````````````

#!/usr/bin/perl -w

use strict;

my $d = `curl -ks "https://cdac.in"`;

#print "$d";

if ($d =~ m/cdac/){

print "Match\n";

} else {

print "Not match\n";

}

%% Here we have used the if-else condition to find a matching word. This method will only tell us whether the word/string is found or not, but won’t print the word for me. For this we need to use the ‘for’ loop.

Match a whitespace char:

Here \s is used for whitespace

``````````````````````````````````````````

#!/usr/bin/perl -w

use strict;

my $str = "This is sparta";

if ($str =~ m/\s/){

print "Match\n";

}

Match & Replace:

`````````````````````````

string/word

```````````````````

#!/usr/bin/perl -w

use strict;

my $str = "This is sparta";

if ($str =~ s/sparta/CDAC/){

print "Match: $str\n";

}

Remove whitespace

``````````````````````````````

#!/usr/bin/perl

$str = "This is sparta";

if ($str =~ s/\s/\_/){

print "Match: $str\n";

}

# perl script.pl

This\_is sparta

%%% Here only the first matched line was replaced. To replace all the \s with \_ we need to put “g” at the end for globally.

Remove whitespace [Globally]

```````````````````````````````````

#!/usr/bin/perl -w

use strict;

my $str = "This is sparta";

if ($str =~ s/\s/\_/g){

print "Match: $str\n";

}

# perl script.pl

This\_is\_sparta

Case insensitive search:

`````````````````````````````````

#!/usr/bin/perl -w

use strict;

my $d = `curl -ks "https://cdac.in"`;

#print "$d";

for ($d =~ m/cdac/gi){

print "Match: $\_\n";

}

Group in Match :

`````````````````

#!/usr/bin/perl

use strict;

use warnings;

my $d = `ip a`;

for ($d =~ m/([0-9]{1,3}\.\d{0,3}\.\d{0,3}\.\d{1,3})/g){

if ($\_){

print "Match: $\_\n";

}

}

Group in substitute :

``````````````````````

=> Use parentheses to store matches

=> Matchs saved as $1,$2,$3 etc

#!/usr/bin/perl -w

use strict;

my $d = "this is sparta";

for ($d =~ s/(\w+)/uc $1/eg){

if ($\_){

print "Match: $\_\n$d\n";

}

}

# perl script.pl

Match: 3

THIS IS SPARTA

Another example:

````````````````

#!/usr/bin/perl

use strict;

use warnings;

my $d = "this is sparta";

for ($d =~ s/(\w)(\w+)/uc($1).$2/eg){

if ($\_){

print "Match: $\_\n$d\n";

}

}

# perl 1.pl

Match: 3

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