## Regex

```
import re
Meta characters that need to be escaped:
. ^ $ + * ? { } [ ] \ | ( )
like if we want to find out shivam.com...
we would write re.compile(r'shivam\.com')
dot matches any character except a new line
matches a single digit
matches other than digits
matches word character (a-z, A-Z, 0-9, )
w not a word character
\s whitespace ( space, tab, newline)
\s not whitespace ( space, tab, newline)
\b matches word boundary( eg: re.compile(r'\bHa') will match both Ha and Ha Ha in
на на На)
NB not above
matches a text which is the begining of a string
$ matches end of a string (eg: re.compile(r'end$')
[. -] only matches what's inside these brackets(this will match either a dash or a dot
not both together)
[1-5] will only match range of digits bw 1 and 5
[a-zA-z] matches upper case or upper case letters
[^b]at will match everything that doesn't start wit b
Mr\.? matches Mr with a dot or not a dot coz of ?
(Ms|Mr|Mrs) will match Mr or Ms or Mrs
```

## Quantifiers

\* 0 or more number of whatever given things Mr\.?\s[a-zA-z]\w\*

Regex 1

```
1 or more number of things
? 0 or 1 number of things
{3} exact number
{1,5} range of number
print(r'\tTab') , using r wont treat \t as tab
sentence = 'a string '
pattern = re.compile(r'abc')
matches = pattern.finditer(text_to_searc): pattern.match(text_to_searc)
   for match in matches:
       print(match)
we can also use <a href="mailto:pattern.search(text_to_searc">pattern.search(text_to_searc)</a> it would return only the exact match None
otherwise
match.group(0) matches whole text under the group or ()
match.group(1) matches 1st group under the group meaning this notation ()
match.group(2) similarly matches 2nd group under the group meaning this notation ()
if we have expression like this (somethin)\.(some other thing)?(something)
```

Regex 2