1. Regular expression let us search the piece of text that matches the given pattern. The main benefit of using them is, it saves lot of time and are very eeficient to use.

2. Pattern (ab)c+ will search for at only one occurence of "ab" and one or more occurances of c.

Pattern a(bc)+ will search for at only one occurence of "a" and one or more occurances of bc.

pattern (ab)c+ can be unqualified pattern "abc+"

3. We have to use it everytime we use functions of the module re.

4. \ (backslash) : general escape character, is usd when you use character class metacharacters as literals inside a character class only.

^ (circumflex anchor) : negate the class, if this is the first character in the brackets(If ^ is not the first, it is not a metacharacter.)

5. It is faster compared to using pattern ad other re functions.

6. re.search() searches for the whole string even if the string contains multi-lines and tries to find a match of the substring in all the lines of string

re.match() searches only from the beginning of the string and return match object if found. But if a match of substring is found somewhere in the middle of the string, it returns none.

But, both search() and match() returns only the first occurance of pattern.

7. | : is regex or. It will check either of any string is present in search string.

[] : This will search for any character is present in string

8. r indicates raw string means that the characters ahead are individual charachers not escape characters. It changes how the string literal is interpreted. Such literals are stored as they appear.