1. What is the name of the feature responsible for generating Regex objects?

Ans = re.compile() function

1. Why do raw strings often appear in Regex objects?

Ans = raw string often used so that backslashes do not have to be escaped

1. What is the return value of the search() method?

Ans = The search() method returns the index (position) of the first match. The search() method returns -1 if no match is found

1. From a Match item, how do you get the actual strings that match the pattern?

Ans = The group() method returns strings of the matched text.

1. In the regex which created from the r'(\d\d\d)-(\d\d\d-\d\d\d\d)', what does group zero cover? Group 2? Group 1?

Ans = The group method returns the matched input sequence captured by the previous match in the form of the string

1. In standard expression syntax, parentheses and intervals have distinct meanings. How can you tell a regex that you want it to fit real parentheses and periods?

Ans = Periods and parentheses can be escaped with a backslash: \., \(, and \)

1. The findall() method returns a string list or a list of string tuples. What causes it to return one of the two options?

Ans = If the regex has no groups, a list of strings is returned. If the regex has groups, a list of tuples of strings is returned.

1. In standard expressions, what does the | character mean?

Ans = Each character in a regular expression (that is, each character in the string describing its pattern) is either a metacharacter, having a special meaning, or a regular character that has a literal meaning. For example, in the regex b. , 'b' is a literal character that matches just 'b', while '.

1. In regular expressions, what does the character stand for?

Ans = A regex (regular expression) consists of a sequence of sub-expressions. In this example, [0-9] and + . The [...] , known as character class (or bracket list), encloses a list of characters.

10.In regular expressions, what is the difference between the + and \* characters?

Each of them are quantifiers, the star quantifier( \* ) means that the preceding expression can match zero or more times it is like {0,} while the plus quantifier( + ) indicate that the preceding expression MUST match at least one time or multiple times and it is the same as {1,} .

1. What is the difference between {4} and {4,5} in regular expression?

The {4} matches exactly three instances of the preceding group. The {4,5} matches between three andfive instance

1. What do you mean by the \d, \w, and \s shorthand character classes signify in regular expressions?

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1. What is the difference between .\*? and .\*?

\*? is non-greedy. \* will match nothing, but then will try to match extra characters until it matches 1

15. What is the syntax for matching both numbers and lowercase letters with a character class?

, the regular expression "[ A-Za-z] " specifies to match any single uppercase or lowercase letter. In the character set, a hyphen indicates a range of characters, for example [A-Z] will match any one capital letter. In a character set a ^ character negates the following characters

16. What is the procedure for making a normal expression in regax case insensitive?

There are two ways to make Regular Expression case-insensitive: Using CASE\_INSENSITIVE flag

17. What does the . character normally match? What does it match if re.DOTALL is passed as 2nd argument in re.compile()?

character normally matches any character except the newline character. If re. DOTALL is passed as the second argument to re. compile(), then the dot will also match newline characters.

18. If numReg = re.compile(r'\d+'), what will numRegex.sub('X', '11 drummers, 10 pipers, five rings, 4 hen') return?

19. What does passing re.VERBOSE as the 2nd argument to re.compile() allow to do?

VERBOSE as the second argument to re. compile() allow you to do? The re. VERBOSE argument allows you to add whitespace and comments to the string passed to re.

20. How would you write a regex that match a number with comma for every three digits? It must match the given following:

'42'

'1,234'

'6,368,745'

but not the following:

>>> **phoneNumRegex = re.compile(r'(\d\d\d)-(\d\d\d-\d\d\d\d)')**  
>>> **mo = phoneNumRegex.search('My number is 415-555-4242.')**  
>>> **mo.group(1)**  
'415'  
>>> **mo.group(2)**  
'555-4242'  
>>> **mo.group(0)**  
'415-555-4242'  
>>> **mo.group()**  
'415-555-4242''12,34,567' (which has only two digits between the commas)

'1234' (which lacks commas)

21. How would you write a regex that matches the full name of someone whose last name is Watanabe? You can assume that the first name that comes before it will always be one word that begins with a capital letter. The regex must match the following:

'Haruto Watanabe'

'Alice Watanabe'

'RoboCop Watanabe'

but not the following:

'haruto Watanabe' (where the first name is not capitalized)

'Mr. Watanabe' (where the preceding word has a nonletter character)

'Watanabe' (which has no first name)

'Haruto watanabe' (where Watanabe is not capitalized)

22. How would you write a regex that matches a sentence where the first word is either Alice, Bob, or Carol; the second word is either eats, pets, or throws; the third word is apples, cats, or baseballs; and the sentence ends with a period? This regex should be case-insensitive. It must match the following:

'Alice eats apples.'

'Bob pets cats.'

'Carol throws baseballs.'

'Alice throws Apples.'

'BOB EATS CATS.'

but not the following:

'RoboCop eats apples.'

'ALICE THROWS FOOTBALLS.'

'Carol eats 7 cats.'

Ans = regex=re.compile(r'Alice|Bob|Carol\seats|pets|throws\sapples\.|cats\.|baseballs\.',re.IGNORECASE)

mo=regex.search(str)

ma=mo.group()

or

regex = r'(?:Alice|Bob|Carol)\s(?:eats|pets|throws)\s(?:apples|cats|baseballs)\.'