Python\_Assignment\_7

Ques 1 – What is the name of feature responsible for generating regex object?

Ans – The re.compile () function returns regex object.

Ques 2 – Why do raw string often appear in regex object?

Ans- Raw strings are used so that backslash do not have escaped.

Ques 3- What is the return value of the search() method?

Ans- The search() method returns match objects.

Ques 4- From the match items, how do you get the actual string that match pattern?

Ans – The group() method returns string of the match text.

Ques 5- In the regex which created from r'(\d\d\d)-(\d\d\d-\d\d\d\d)',what does group zero cover? Group 2? Group 1?

Ans – Group zero is the entries match, group1 cover the first set of parenthesis, and group 2 cover the second set of parenthesis.

Ques 6- 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 – period and parenthesis can be escaped with a backslash :\,\

Ques 7- The findall() method returns the string or a list of tuples of string. What makes is return one or others.

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

Ques 8- In standard expressions, what does the | character mean?

Ans – The | character signifies matching “either,or” between two groups.

Ques 9- In regular expression, what does the character stands for ?

Ans – A regular expression is a sequence oof characters that’s specifies a search pattern a text.

Ques 10- In regular expression, what is the difference between the + and \* character?

Ans – The + match one or more and the \* match zero or more.

Ques 11- What is the difference between {4}, {4,5} in regular expression?

Ans – The {4} match exactly four instance of the preceding group. The {4, 5} match between four and five.

Ques 12- What do you mean by \d,\w,\s shorthand characters classes signify expression?

Ans – The \d, \w and \s these character specify expression is match a single digit, word and space character respectively.

Ques 13- what do mean by \D, \W and \S shorthand classes specify In regular expression?

Ans – The \D, \W and \S shorthand classes specify in regular expression is not digit, word and space character respectively.

Ques 14 – What is the difference between .\*? and .\* ?

Ans 14 - \*? is non greedy. \* will match nothing, but then will try to match extra characters until it match 1.

Ques 15 - What is the syntax for matching both number and lower case latter with a character class?

Ans – Either [0-9a-z] or [a-z0-9]

Ques 16- What is the procedure for making a normal expression in regex case insensitive?

Ans- This flag allows for case insensitive matching of the regular expression with the given string.

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

Ans - The . character normally match any character except the new line character. If re.DOTALL is passed as the second argument to re.compile() then the dot will also match new line character.

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

Ans - 'X drummers, X pipers, five rings, X hens'

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

Ans - The re.VERBOSE argument allows you to add whitespace and comments to the string passed to re.compile().

Ques 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:

'12,34,567' (which has only two digits between the commas)

'1234' (which lacks commas)

Ans - re.compile(r'^\d{1,3}(,\d{3})\*$') will create this regex, but other regex strings can produce a similar regular expression.

Ques 21- How would you write a regex that match full name of someone whose last name is Watanabe? You can assume that the first name that’s comes before it will always be one word that being with a capital latter. And the regex much be 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)

Ans - re.compile(r'[A-Z][a-z]\*\sWatanabe')

Ques 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 - re.compile(r'(Alice|Bob|Carol)\s(eats|pets|throws)\s(apples|cats|baseballs)\.', re.IGNORECASE)