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Sub Nlp

Question No. 2:

(10)

a) Specify the text strings using the below regular expressions:

1. `/[a-zA-F0-9]`

a. Given string: a89 opx cff

Solution: `a89 opx xff`

2. `/[abc]`

a. Given string abc ac acb a0b a2b a42c A878

Sol: `abc.ac.acb.a0b.a2b.a42c.A878`

3. `a(b|c)`

a. Given string abc aa acbaob

Sol: `abc.aa.acbaob`

4. `/abc*`

a. Given string ab abc abcc babc abc abcc babc

Sol: `ab.abc.abcc.babc.abc.abcc.babc`

5. `/abc+`

a. Given string ab abc abcc babc abc abcc babc

Sol: `ab.abc.abcc.babc.abc.abcc.babc`

6. `/[^a-zA-Z]`

a. Given string Price of cat \$1

Sol: `price.of.cat.$1`

7. `/[a-zA-Z0-9]`

a. Given string: a89 opx cfff \$!
Sol: a89..opx...cfff.\$!.

8. `/a(bc)`

a. Given string: ab abc ac acb a0b a2b a42c A87d

Sol: ab..abc..ac..acb.a0b.a2b.a42c.A87d

9. `/a[bc]`

a. Given string abc ac acb a0ba2b

Sol: abc.ac.acb.a0ba2b

10. `a|b|c`

a. Given string: ab abc ac acb a0b a2b a42c A87d

Sol: ab..abc..ac.acb.a0b.a2b.a42c.A87d

a) What do you mean by regular expressions ?

Answer:

The regular expression mean to used the search pattern used for the same one or more characters of string is matching.it can match specific wildcards ,range of characters and regular expressions were originally used word processors on multiple platforms.regular expression can also used most major programming language

Question No. 1:

b)Define Phonology and Morphology with the help of example

Answer:

Morphology is the study of grammar that studies word structures the branche of linguistic,especially regarding morphemes which are the smallest units of language such as affixes.

For example

The word "cats" has 2 morpheme and the word cat has just one morpheme , as the –s denotes plurality

Phonology:

Is the study of sound patterns and their meanings both within and across other language.

For example:

The phonology is the study of different sounds and the way they come together to form speech and wrds such as the comparision of the sounds of the two "p" sound in pop up

Q no 1: explain NLP? Write the name of 2 Applications of NLP with example? Write the name ?

Ans:

Nlp is the natural language processing is the ability of computer program which is to understanding the human language as it spoken.which converte the human language into machine language which is understand by computer Nlp is the component of artificial intelligent.

2 applications of nlp with example

1* machine translation:

Many language don't allow for straight translation and have different orders for sentence structure, which translation services used to overlook .but they've come a long way.one of the tell- tale signs of cheating on your spanish homework is that grammatically

2*Email filters:

It started out with spam filters,uncovering certain words or phrases that signal spam message.email filters are one of the most basic and initial application of nlp online.

2 challenges of of nlp

➤ Two sigma connect

➤ Quora question pairs