Python Advance Assignment_16

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Q1. What is the benefit of regular expressions

Answer-Regular expressions are useful in search and replace operations. The typical use case is to look for a sub-string that matches a pattern and replace it with something else. Most APIs using regular expressions allow you to reference capture groups from the search pattern in the replacement string

Q2. Describe the difference between the effects of "(ab)c+" and "a(bc)+." Which of these, if any, is the unqualified pattern "abc+"?

Answer -(ab)c+ -- > here first ab will evaluate output of it will be multiplied to c the icrement(+) will happen a(bc)+ --> here first all multiplication operation will happen then increment by 1 will happen to the final outputof multiplication.

Q3. How much do you need to use the following sentence while using regular expressions?

import re

Answer - (import re) It is used in order to perform regex operation, it is used where ever search and replace operation is done.

Q4. Which characters have special significance in square brackets when expressing a range, and under what circumstances?

Answer- SemiColumn have the special significance as it helps in perform operation like skip value reverse indexing etc.

Q5. How does compiling a regular-expression object benefit you?

Answer- We can combine a regular expression pattern into pattern objects, which can be used for pattern matching. It also helps to search a pattern again without rewriting it.

Q6. What are some examples of how to use the match object returned by re.match and re.search?

Answer - Exaple is as follows:-

In [2]:

```
import re

Substring ='string'
String1 ='''Its all about regex with FSDS.'''
String2 ='''Its all about implementing regex with FSDS'''
print(re.search(Substring, String1, re.IGNORECASE))
print(re.match(Substring, String1, re.IGNORECASE))
print(re.search(Substring, String2, re.IGNORECASE))
print(re.match(Substring, String2, re.IGNORECASE))

None
None
None
None
```
Q7. What is the difference between using a vertical bar (|) as an alteration and using square brackets as a character set?

Answer - The vertical bar is a regex "or" means "a or b". Square brackets are a character class meaning "any character

Q8. In regular-expression search patterns, why is it necessary to use the raw-string indicator (r)? In replacement strings?

Answer :-The solution is to use Python's raw string notation for regular expression patterns; backslashes are not handled in any special way in a string literal prefixed with 'r'. So r"\n" is a two-character string containing '\' and 'n', while "\n" is a one-character string containing a newline. Usually patterns will be expressed in Python code using this raw string notation.

In [ ]: