



Name of the Bundle	Intermediate Bundle V1	Subject	Python Programming V1
Topic	Regular Expression	Last updated on	09 October 2024

1. Which module in Python supports regular expressions?

- a. re
- b. regex
- c. pyregex
- d. none of the mentioned

Ans: a.re

Explanation: re is a part of the standard library and can be imported using: import re.

2. What does the function re.match do?

- a. matches a pattern at the start of the string
- b. matches a pattern at any position in the string
- c. such a function does not exist
- d. none of the mentioned

Ans: a.matches a pattern at the start of the string

Explanation: It will look for the pattern at the beginning and return None if it isn't found.

3. What does the function re.search do?

- a. matches a pattern at the start of the string
- b. matches a pattern at any position in the string
- c. such a function does not exist
- d. none of the mentioned

Ans: b.matches a pattern at any position in the string

Explanation: It will look for the pattern at any position in the string.



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4. The function of re.search is _____.
- a. Matches a pattern at the start of the string
 - b. Matches a pattern at the end of the string
 - c. Matches a pattern from any part of a string
 - d. Such a function does not exist

Ans: c. Matches a pattern from any part of a string

Explanation: The re module of Python consists of a function re.search. It's function is to match a pattern from anywhere in a string.

5. The character Dot (that is, '.') in the default mode, matches any character other than _____
- a. caret
 - b. ampersand
 - c. percentage symbol
 - d. newline

Ans: d. newline

Explanation: The character Dot (that is, '.') in the default mode, matches any character other than newline. If the DOTALL flag is used, then it matches any character other than newline.



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6. The expression `a{5}` will match ____ characters with the previous regular expression.

- a. 5 or less
- b. exactly 5
- c. 5 or more
- d. exactly 4

Ans: b. exactly 5

Explanation: The character `{m}` is used to match exactly `m` characters to the previous regular expression. Hence the expression `a{5}` will match exactly 5 characters and not less than that.

7. _____ matches the end of the string.

- a. '^', '\$'
- b. '\$', '^'
- c. '\$', '?'
- d. '?', '^'

Ans: a. '^', '\$'

Explanation: '^' (carat) matches the start of the string.

'\$' (dollar sign) matches the end of the string.

8. Which of the following special characters matches a pattern only at the end of the string?

- a. \B
- b. \X
- c. \Z
- d. \A

Ans: c.\Z

Explanation: \B matches a pattern which is not at the beginning or end of a string.

\X refers to re.VERBOSE. \A matches a pattern only at the start of a string. \Z matches a pattern only at the end of a string.



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9. What type of string is r'hello'?

- a. Raw String
- b. Normal String
- c. Multiline String
- d. Byte String

Ans: a. Raw String

Explanation: Raw strings treat backslashes as literal characters, not escape characters.

10. What is a Raw String in Python?

- a. A string that recognizes escape sequences
- b. A string that only contains numbers
- c. A string that ignores escape sequences
- d. A string that is encrypted

Ans: c. A string that ignores escape sequences

Explanation: Raw strings in Python (prefixed with 'r') ignore escape sequences, treating them as literal characters.

11. What is true about a raw string?

- a. It recognizes escape sequences.
- b. It doesn't recognize escape sequences.
- c. It only accepts numeric characters.
- d. It is always empty.

Ans: b. It doesn't recognize escape sequences.

Explanation: In raw strings, backslashes are treated as literal characters.



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12. What is a character with a special meaning in regular expressions called?

- a. Special Character
- b. WildCard Character
- c. Meta Character
- d. Escape Character

Ans: b. WildCard Character

Explanation: Wild card characters match various patterns in regular expressions.

13. What does the group() method of a regular expression return?

- a. A list of all matches
- b. The string that matched the regular expression
- c. The number of matches
- d. The pattern used for matching

Ans: b. The string that matched the regular expression

Explanation: The group() method returns the portion of the string that matched the pattern.

14. What is the wildcard? (period) match?

- a. Any digit
- b. Any letter
- c. Any single character except a new line
- d. Any whitespace

Ans: c. Any single character except a new line

Explanation: The period can match any character except for newline characters.



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15. What does the wildcard ^ (caret) match?

- a. The end of the string
- b. Any character
- c. The start of the string
- d. Any whitespace

Ans: c. The start of the string

Explanation: The caret matches the beginning position of the string.

16. What does the wildcard \$ (dollar) match?

- a. The beginning of the string
- b. Any character
- c. The end of the string
- d. A whitespace character

Ans: c. The end of the string

Explanation: The dollar sign matches the position at the end of the string.

17. What does the wildcard [...] (characters within square brackets) match?

- a. A single character
- b. Any string
- c. A whitespace character
- d. A digit

Ans: a. A single character

Explanation: Square brackets match any single character listed within them.



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18. What does the pattern `r'[4-8]'` match?

- a. Any single number between 0 and 3
- b. Any single number between 4 and 8
- c. Any letter
- d. Any digit

Ans: b. Any single number between 4 and 8

Explanation: The range specifies matching any character in that range.

19. What does the pattern `r'[A-D]'` match?

- a. Any number
- b. Any alphabet between A and D
- c. Any lowercase letter
- d. Any uppercase letter

Ans: b. Any alphabet between A and D

Explanation: The pattern matches any single uppercase letter from A to D.

20. What does the pattern `r'[ad]'` match?

- a. Any single alphabet except a or d
- b. Any digit
- c. Any single alphabet - a or d
- d. Any character

Ans: c. Any single alphabet - a or d

Explanation: It matches either 'a' or 'd'.



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21. What does the pattern `r'[^abc]'` match?

- a. a, b, or c
- b. Any character except a, b, or c
- c. Only digits
- d. Any letter

Ans: b. Any character except a, b, or c

Explanation: The caret inside brackets negates the characters, matching anything else.

22. What does the pattern `r'[0-4][0-9]'` match?

- a. Any two-digit number
- b. Numbers from 00 to 49
- c. Numbers from 40 to 49
- d. A single digit

Ans: b. Numbers from 00 to 49

Explanation: The first digit is between 0 and 4, and the second between 0 and 9.

23. What does the pattern `r'[a-zA-Z]'` match?

- a. Any digit
- b. Any lowercase letter
- c. Any uppercase letter
- d. Any alphabet - a-z or A-Z

Ans: d. Any alphabet - a-z or A-Z

Explanation: This matches any single letter, whether uppercase or lowercase.



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24. What does the wildcard `\w` (lowercase) match?

- a. Non-word characters
- b. Any single letter, digit, or underscore
- c. Only letters
- d. Any whitespace

Ans: b. Any single letter, digit, or underscore

Explanation: `\w` matches word characters, which include letters, digits, and underscores.

25. What does the wildcard `\W` (uppercase) match?

- a. Word characters
- b. Non-word characters
- c. Digits
- d. Letters

Ans: b. Non-word characters

Explanation: `\W` matches any character that is not a word character.

26. What does the wildcard `\s` match?

- a. Any digit
- b. Any letter
- c. Whitespace
- d. Non-whitespace

Ans: c. Whitespace

Explanation: `\s` matches spaces, tabs, and newline characters.



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27. What does the wildcard `\d` match?

- a. Non-digit characters
- b. Any digit
- c. Letters
- d. Special characters

Ans: b. Any digit

Explanation: `\d` matches any single digit character (0-9).

28. What does the wildcard `\D` match?

- a. Any digit
- b. Non-digits
- c. Letters only
- d. Special characters

Ans: b. Non-digits

Explanation: `\D` matches any character that is not a digit.

29. What does the wildcard `\A` match?

- a. The end of the string
- b. The beginning of the string
- c. Any character
- d. Any whitespace

Ans: b. The beginning of the string

Explanation: `\A` matches only the start of the string.



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30. What does the wildcard `\Z` match?

- a. The beginning of the string
- b. The end of the string
- c. Any character
- d. Any whitespace

Ans: b. The end of the string

Explanation: `\Z` matches only the end of the string.

31. Which of the following is a match for the pattern `"he..o"`?

- a. "hello"
- b. "he12o"
- c. "he!!o"
- d. All of the above

Ans: d. All of the above

Explanation: The pattern matches any five-character string starting with "he" and ending with "o" with any two characters in between.

32. Which of the following is a match for the pattern `^hello`?

- a. "hello"
- b. "hello world"
- c. "hellothere"
- d. "helloooooo"

Ans: a. "hello"

Explanation: The `^` asserts that "hello" must be at the start of the string.



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33. Which of the following is a match for the pattern planet\$?

- a. "planet"
- b. "hello planet"
- c. "our blue planet"
- d. All the above

Ans: a. "planet"

Explanation: The \$ asserts that "planet" must be at the end of the string.

34. Which string will match the regular expression he.+o?

- a. "hello"
- b. "heo"
- c. "heo123"
- d. "he!!"

Ans: a. "hello"

Explanation: The .+ requires at least one character between "he" and "o".

35. Which string will match the regular expression he.?o?

- a. "heo"
- b. "hello"
- c. "he123o"
- d. "heyo"

Ans: a. "heo"

Explanation: The .? allows for zero or one character between "he" and "o".



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36. Which of the following creates a pattern object?

- a. re.create(str)
- b. re.regex(str)
- c. re.compile(str)
- d. re.assemble(str)

Ans: c. re.compile(str)

Explanation: This function converts a given string into a regex pattern object.

37. The special character \B matches the empty string, but only when it is _____.

- a. at the beginning or end of a word
- b. not at the beginning or end of a word
- c. at the beginning of the word
- d. at the end of the word

Ans: b. not at the beginning or end of a word

Explanation: \B matches a position that is not at a word boundary.

38. What will be the output of the following Python code?

```
sentence = 'we are humans'  
  
matched = re.match(r'(.*) (.*) (.*)', sentence)  
  
print(matched.groups())
```

- a. ('we', 'are', 'humans')
- b. (we, are, humans)
- c. ('we', 'humans')
- d. 'we are humans'

Ans: a. ('we', 'are', 'humans')

Explanation: This returns all the matched subgroups.



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39. What will be the output of the following Python code?

```
sentence = 'we are humans'  
  
matched = re.match(r'(.*) (.*) (.*)', sentence)  
  
print(matched.group())
```

- a. ('we', 'are', 'humans')
- b. (we, are, humans)
- c. ('we', 'humans')
- d. 'we are humans'

Ans: d. 'we are humans'

Explanation: This returns the entire matched string.

40. What will be the output of the following Python code?

```
sentence = 'we are humans'  
  
matched = re.match(r'(.*) (.*) (.*)', sentence)  
  
print(matched.group(2))
```

- a. 'are'
- b. 'we'
- c. 'humans'
- d. 'we are humans'

Ans: a. 'are'

Explanation: This returns the second subgroup matched.



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41. What will be the output of the following Python code?

```
sentence = 'horses are fast'  
regex = re.compile('(P<animal>\w+) (P<verb>\w+) (P<adjective>\w+)')  
matched = re.search(regex, sentence)  
print(matched.groupdict())
```

- a. {'animal': 'horses', 'verb': 'are', 'adjective': 'fast'}
- b. ('horses', 'are', 'fast')
- c. 'horses are fast'
- d. 'are'

Ans: a. {'animal': 'horses', 'verb': 'are', 'adjective': 'fast'}

Explanation: This returns a dictionary of named groups.

42. Which of the following functions clears the regular expression cache?

- a. re.sub()
- b. re.pos()
- c. re.purge()
- d. re.subn()

Ans: c. re.purge()

Explanation: This function clears the regex cache.



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43. Given the following code:

```
import re

pattern = r"he..o"

test_strings = ["hello", "he12o", "he!!o", "he__o", "he55o", "he!zo", "he&*o"]

for string in test_strings:

    match = re.match(pattern, string)

    if match:

        print(f"Matched: {string}")

    else:

        print(f"Did not match: {string}")
```

What will be the output?

- a. Matched: hell/o
- b. Matched: he585o
- c. Matched: hezo
- d. Matched: he&*o

Ans: d. Matched: he&*o

Explanation: The pattern matches any string starting with "he" followed by any two characters and ending with "o".



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44. What does the quantifier + check?

- a. Matches the preceding character zero or more times.
- b. Matches the preceding character one or more times.
- c. Matches the preceding character exactly once.
- d. Matches any character.

Ans: b. Matches the preceding character one or more times.

Explanation: The + quantifier requires that the preceding element appears at least once.

45. Which quantifier is used to check if the preceding character appears zero or more times starting from that position?

- a. +
- b. *
- c. ?
- d. {}

Ans: b. *

Explanation: The * quantifier allows for zero or more occurrences of the preceding element.

46. Which Python regular expression pattern matches one or more occurrences?

- a. +
- b. *
- c. ^
- d. ?

Ans: a. +

Explanation: The + pattern matches one or more occurrences of the preceding element.



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47. Which qualifier is used to check exactly or a range of occurrences?

- a. +
- b. *
- c. {}
- d. ?

Ans: c. {}

Explanation: Curly braces {} specify an exact number or range of occurrences.

48. What does the search() function do in Python's regular expressions?

- a. Searches for a match at the beginning of the string
- b. Searches for a match anywhere in the string
- c. Searches for all matches in the string
- d. Replaces matches in the string

Ans: b. Searches for a match anywhere in the string

Explanation: The search() function finds a match for the pattern anywhere in the string.

49. What does the match() function do in Python's regular expressions?

- a. Searches for a match anywhere in the string
- b. Searches for a match at the beginning of the string
- c. Searches for all matches in the string
- d. Replaces matches in the string

Answer: b. Searches for a match at the beginning of the string

Explanation: The match() function in Python's regular expressions checks if a pattern matches at the very start of a string.



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50. What is a Normal String in Python?

- a. Ignore escape sequence
- b. Recognize escape sequences
- c. Limited to alphanumeric character
- d. Have fixed lengths

Answer: b. Recognize escape sequences

Explanation: A normal string in Python can include escape sequences like `\n` for a newline and `\t` for a tab, allowing for special formatting. This means it can represent various characters beyond just regular text.