

regex-expression-assignment-3

August 11, 2024

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- 1 Q.1).Write a RegEx pattern in python program to check that a string contains only a certain set of characters (in this case a-z, A-Z and 0-9).

```
[1]: import re

string = "Virat"

pattern = r'^[a-z,A-Z0-9]+$'

x = re.search(pattern,string)

print(x)
```

<re.Match object; span=(0, 5), match='Virat'>

- 2 Q.2).Write a RegEx pattern that matches a string that has an a followed by zero or more b's

```
[2]: string = "abbb"

pattern = r'ab*'

x = re.search(pattern,string)

print(x)
```

<re.Match object; span=(0, 4), match='abbb'>

3 Q.3).Write a RegEx pattern that matches a string that has an a followed by one or more b's

```
[3]: string = "abbb"

pattern = r'ab+'

x = re.search(pattern,string)

print(x)

<re.Match object; span=(0, 4), match='abbb'>
```

4 Q.4).Write a RegEx pattern that matches a string that has an a followed by zero or one 'b'

```
[4]: string = "ac"

pattern = r'ab?'

x = re.search(pattern,string)

print(x)

<re.Match object; span=(0, 1), match='a'>
```

5 Q.5).Write a RegEx pattern in python program that matches a string that has an a followed by three 'b'.

```
[5]: string = "abbb"

pattern = r'ab{3}'

x = re.search(pattern,string)

print(x)

<re.Match object; span=(0, 4), match='abbb'>
```

6 Q.6).Write a RegEx pattern in python program that matches a string that has an a followed by two to three 'b'.

```
[6]: string = "abbb"

pattern = r'ab{2,3}'

x = re.search(pattern,string)

print(x)
```

```
<re.Match object; span=(0, 4), match='abbb'>
```

7 Q.7).Write a Python program that matches a string that has an 'a' followed by anything, ending in 'b'.

```
[7]: string = "a1234tb"

pattern = r'[aA].*[bB]$'

x = re.search(pattern,string)

print(x)
```

```
<re.Match object; span=(0, 7), match='a1234tb'>
```

8 Q.8).Write a RegEx pattern in python program that matches a word at the beginning of a string.

```
[8]: target_string = 'Virat is a cricket player 1998 who was born Novenmber 5,1968 '

result = re.search(r"^[a-zA-Z]",target_string)

print(result)
```

```
<re.Match object; span=(0, 1), match='V'>
```

9 Q.9).Write a RegEx pattern in python program that matches a word at the end of a string.

```
[9]: target_string = 'Virat is a cricket player 1998 who was born Novenmber 5,1968_
↳Virat'

result = re.search(r"[a-zA-Z]$",target_string)
```

```
print(result)
```

```
<re.Match object; span=(65, 66), match='t'>
```

10 Q.10).Write a RegEx pattern in python program to find all words that are 4 digits long in a string.

Sample text- '01 0132 231875 1458 301 2725.' Expected output- ['0132', '1458', '2725']

```
[10]: text = "01 0132 231875 1458 301 2725."  
  
x =re.findall( r'\b\d{4}\b',text)  
print(x)
```

```
['0132', '1458', '2725']
```

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