```
import re
            any string = '''hello, my name is faizan. These are my contact numbers: +91-1234567899
            feel free to call me at working hours not 247.
           print(numberRegex.search(any string))
           <re.Match object; span=(56, 70), match='+91-1234567899'>
           #using findall function
            import re
            any string = '''hello, my name is faizan. These are my contact numbers: +91-1234567899
            feel free to call me at working hours not 247.
            numberRegex = re.compile(r"((\+\d\d-)?\d\d\d\d\d\d\d\d\d\d\d\)")
           print(numberRegex.findall(any string))
           [('+91-1234567899', '+91-'), ('9876543211', '')]
           #to find how many sentences are there in the string ==> can use no of full stops
            import re
            any_string = '''hello, my name is faizan. These are my contact numbers: +91-1234567899
            feel free to call me at working hours not 247.
           numberRegex = re.compile(r"(\.)")
           print(numberRegex.findall(any_string))
           ['.', '.', '.']
In [29]:
           import re
            any string = '''On the 12th day of Christmas my true love gave to me
           12 chocolate cookies, 11 shoppers fighting, 10 cars a honking,
            9 broken presents, 8 bags a missing, 7 Christmas parties,
            6 crazy in-laws, 5 EXTRA POUNDS, 4 credit cards, 3 crying babies,
            2 bras, and a dry brown Christmas tree.
            wordRegex = re.compile(r"(\d\d\s\w)")
           print(wordRegex.findall(any string))
           ['12 c', '11 s', '10 c']
          # '+' ==> 1 or more so same shortcut format works until any other character format app
            import re
            any string = '''On the 12th day of Christmas my true love gave to me
            12 chocolate cookies, 11 shoppers fighting, 10 cars a honking,
            9 broken presents, 8 bags a missing, 7 Christmas parties,
            6 crazy in-laws, 5 EXTRA POUNDS, 4 credit cards, 3 crying babies,
            2 bras, and a dry brown Christmas tree.
            wordRegex = re.compile(r"(\d+\s\w+)")
           print(wordRegex.findall(any string))
           ['12 chocolate', '11 shoppers', '10 cars', '9 broken', '8 bags', '7 Christmas', '6 cra
           zy', '5 EXTRA', '4 credit', '3 crying', '2 bras']
           #making your own character class
            #finding vowels in string
            import re
            any string = '''On the 12th day of Christmas my true love gave to me
            12 chocolate cookies, 11 shoppers fighting, 10 cars a honking,
            9 broken presents, 8 bags a missing, 7 Christmas parties,
                     in-laws, 5 EXTRA POUNDS, 4 credit cards, 3 crying babies,
            b crazy
            2 bras, and a dry brown Christmas tree.
            vowelRegex = re.compile(r"[aeiouAEIOU]")  #it is same as (r"a|e|i|o|u|A|E|I|O|U")
           print(vowelRegex.findall(any string))
           ['O', 'e', 'a', 'o', 'i', 'a', 'u', 'e', 'o', 'e', 'a', 'e', 'o', 'e', 'o', 'o', 'a', 'e', 'o', 'i', 'e', 'o', 'i', 'a', 'a', 'o', 'i', 'o', 'e', 'e', 'e', 'a', 'a', 'i', 'i', 'i', 'a', 'i', 'a', 'i', 'a', 'i', 'a', 'i', 'a', 'e', 'e']
In [34]: # finding 2 vowels in continuation in above exp
            import re
            any_string = '''On the 12th day of Christmas my true love gave to me
            12 chocolate cookies, 11 shoppers fighting, 10 cars a honking,
            9 broken presents, 8 bags a missing, 7 Christmas parties,
            6 crazy in-laws, 5 EXTRA POUNDS, 4 credit cards, 3 crying babies,
            2 bras, and a dry brown Christmas tree.
            1.1.1
            vowelregex = re.compile(r"[aeiouAEIOU]{2}")
           print(vowelregex.findall(any_string))
           ['ue', 'oo', 'ie', 'ie', 'OU', 'ie', 'ee']
In [40]: # finding consonants in string using negative character class(caret symbol'^') with the
           import re
            any string = '''On the 12th day of Christmas my true love gave to me
            12 chocolate cookies, 11 shoppers fighting, 10 cars a honking,
            9 broken presents, 8 bags a missing, 7 Christmas parties,
            6 crazy in-laws, 5 EXTRA POUNDS, 4 credit cards, 3 crying babies,
            2 bras, and a dry brown Christmas tree.
            consonantregex = re.compile(r"[^aeiouAEIOU\s\,\.\d\-]")
           print(consonantregex.findall(any_string))
          ['n', 't', 'h', 't', 'h', 'd', 'y', 'f', 'C', 'h', 'r', 's', 't', 'm', 's', 'm', 'y', 't', 'r', 'l', 'v', 'g', 'v', 't', 'm', 'c', 'h', 'c', 'l', 't', 'c', 'k', 's', 's', 'h', 'p', 'p', 'r', 's', 'f', 'g', 'h', 't', 'n', 'g', 'c', 'r', 's', 'h', 'n', 'k', 'n', 'g', 'b', 'r', 'k', 'n', 'p', 'r', 's', 'n', 't', 's', 'b', 'g', 's', 'm', 's', 's', 'n', 'g', 'c', 'h', 'r', 's', 't', 'm', 's', 'p', 'r', 't', 's', 'c', 'r', 'z', 'y', 'n', 'l', 's', 'c', 'r', 'd', 't', 'c', 'r', 'd', 's', 'c', 'r', 'g', 'b', 'b', 's', 'b', 's', 'b', 'r', 's', 'n', 'd', 'd', 'r', 'y', 'b', 'b', 'r', 's', 't', 'r']
```

#using search function; here, '?' means pattern may be present 0 or 1 time

In [24]: