# **Chap.-3 R.E.(Regular Expression)**

### Metacharacters

- [] Set of characters
- \ Signals a special sequence
- (Escape special characters)
- .(dot) Any character
- ^ Starts with (but in [...] inverse )
- \$ Ends with it's only check at 0 index
- '\*' Zero or More occurance
- '+' One or More occurance
- ? Zero or One occurance
- {} Exact occurance
- ! Either or
- \d only digit(0-9)
- \D Except Digit Everything
- \s whitespace
- \w AlphaNumeric [a-z, A-Z, 0-9]
- W (Not a Word Character): Matches any character that is not a letter, digit, or underscore. This includes punctuation, spaces, and other symbols.
- \b begining or end of a word
- \B NOT or end of a word

## re.findall(pattern, string)

```
In [1]:
         1 import re
          2 text = 'This is the Python Programming class of 2025'
         3 reg = r't\w*'
         4 ans = re.findall(reg,text)
          5 print(ans) # ['the', 'thon']
        ['the', 'thon']
        Type Markdown and LaTeX: \alpha^2
In [2]:
         1 import re
          2 text = 'This is the Python Programming class of 2025'
         3 reg = r'\bt\w*'
         4 ans = re.findall(reg,text)
          5 print(ans)
        ['the']
In [4]:
         1 import re
         2 text = 'This is the Python Programming class of 2025'
         3 reg = r'\b[t|T]\w*'
         4 ans = re.findall(reg,text)
         5 print(ans)
        ['This', 'the']
In [5]:
         1 import re
         2 text = 'This is the Python Programming class of 2025'
         3 reg = r'\bt\w*'
         4 ans = re.findall(reg,text,re.I)
          5 print(ans)
```

- re.l Ignore Case(Capital or small).
- re.search(reg,text)

['This', 'the']

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

```
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                                                              Chap.-3_Sem_4_T-1_Romil - Jupyter Notebook
       In [7]:
                 1 import re
                 2 text = 'This is the Python Programming class of 2025'
                 3 reg = r'\bt\w*'
                 4 | ans = re.search(reg,text,re.I)
                 5 print(ans.group())
               This
       In [8]:
                 1 import re
                 2 text = 'This is the Python Programming class of 2025'
                 3 reg = r'\bt\w*'
                 4 ans = re.search(reg,text,re.I)
                 5 | print(ans.span())
               (0, 4)
      In [11]:
                1 import re
                 2 text = 'This is the Python Programming class of 2025'
                 3 reg = r'\bt\w*'
                 4 | ans = re.search(reg,text,re.I)
                 5 print(ans.start())
      In [12]:
                1 | import re
                 2 | text='This is the python Programming class of 2025'
                 3 reg=r'\bz\w*'
                 4 ans=re.search(reg,text,re.I)
                 5 print(ans)
                 6 # if not in string then return none and other method dont work on none so it gives error
               None
      In [16]:
                1 import re
                 2 text = 'This is the Pyth-on Prog*ramming class of 2025'
                 3 | reg = r'\W'
                 4 ans = re.split(reg,text)
                 5 print(ans)
               ['This', 'is', 'the', 'Pyth', 'on', 'Prog', 'ramming', 'class', 'of', '2025']
      In [17]:
                1 | import re
                 2 text = 'This is the Pyth-on Prog*ramming class of 2025'
                 3 | reg = r'\W'
                 4 | ans = re.split(reg,text,2) # max 2 split
                 5 print(ans) # ['This', 'is', 'the Pyth-on Prog*ramming class of 2025']
                 7 | # if 2 split then 3 peice of String
               ['This', 'is', 'the Pyth-on Prog*ramming class of 2025']
      In [18]:
                1 import re
                 2 text = 'This is the Pyth-on Prog*ramming class of 2025'
                 3 | reg = r'\w'
                 4 ans = re.split(reg,text)
                 5 print(ans)
                 re.sub(reg,'$',text) - for replace
      In [20]: | 1 | import re
                 2 text = 'This is the Pyth-on Prog*ramming class of 2025'
                 3 reg = r'\s'
                 4 ans = re.sub(reg,'$',text)
```

```
5 print(ans)
```

This\$is\$the\$Pyth-on\$Prog\*ramming\$class\$of\$2025

```
In [23]:
          1 # replace digits with P
          2 import re
          3 text = 'This is the Pyth-on Prog*ramming class of 2025'
          4 reg = r'\d'
          5 | ans = re.sub(reg, 'P', text)
           6 print(ans)
```

This is the Pyth-on Prog\*ramming class of PPPP

```
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In [24]:
           1 import re
           2 text = 'This is the Pyth-on Prog*ramming class of 2025'
           3 \text{ reg = } r' d+'
           4 ans = re.sub(reg, 'P', text)
           5 print(ans)
         This is the Pyth-on Prog*ramming class of P
In [33]:
          1 import re
           2 text = ' This is the Pyth-on Prog*ramming class of 2025'
           3 reg = r'^\s'
          4 ans = re.sub(reg,'$',text)
           5 print(ans)
           6 | # starting with
         $This is the Pyth-on Prog*ramming class of 2025
In [41]:
          1 | import re
           2 text = ' This is the Pyth-on Prog*ramming class of 2025 '
           3 | reg = r'^\s|\s$'
          4 ans = re.sub(reg,'$',text)
           5 print(ans)
         $This is the Pyth-on Prog*ramming class of 2025$
In [40]:
          1 | import re
           2 text = ' This is the Pyth-on Prog*ramming class of 2025
           3 reg = r'^\s|\s$'
           4 | ans = re.sub(reg,'$',text)
           5 print(ans)
         $This is the Pyth-on Prog*ramming class of 2025 $
In [39]: | 1 | import re
           2 text = ' This is the Pyth-on Prog*ramming class of 2025
           3 reg = r'^\s|\s*$'
           4 ans = re.sub(reg,'$',text)
           5 print(ans)
         $This is the Pyth-on Prog*ramming class of 2025$$
In [42]:
          1 import re
           2 | text = ' This is the Pyth-on Prog*ramming class of 2025
          3 | reg = r'^\s|\s+$'
           4 ans = re.sub(reg,'$',text)
           5 print(ans)
         $This is the Pyth-on Prog*ramming class of 2025$
In [57]:
          1 | import re
           2 text = 'This is the Pyth-on Prog*ramming class of 2025'
          3 reg = r'^\bP\w*'
          4 ans = re.findall(reg,text)
           5 print(ans)
         []
In [58]:
         1 | import re
           2 text = 'PThis is the Pyth-on Prog*ramming class of 2025'
           3 reg = r'^\bP\w*'
           4 ans = re.findall(reg,text)
           5 print(ans)
         ['PThis']
In [59]:
          1 import re
           2 text = 'PThis is the Pyth-on Prog*ramming class of 2025'
          3 reg = r'^P*'
           4 | ans = re.findall(reg,text)
           5 print(ans)
```

['P']

Alice's Adventures in Wonderland

### ALICE'S ADVENTURES IN WONDERLAND

Lewis Carroll

THE MILLENNIUM FULCRUM EDITION 3.0

#### CHAPTER I

Down the Rabbit-Hole

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no

['in', 'of', 'on', 'and', 'of', 'once', 'or', 'into', 'it', 'or', 'in', 'it', 'and', 'is', 'use', 'of', 'a', 'or', 'in', 'own', 'as', 'as', 'as', 'and', 'of', 'a', 'of', 'up', 'and', 'a', 'eyes', 'in', 'it', 'out', 'of', 'itself', 'it', 'over', 'afterwards', 'it', 'occurred', 'ought', 'at', 'at', 'it', 'all', 'actually', 'and', 'at', 'it', 'and', 'on', 'it', 'arcross', 'a', 'either', 'a', 'or', 'a', 'out', 'of', 'it', 'and', 'across', 'after', 'it', 'and', 'in', 'it', 'a', 'under', 'another', 'after', 'it', 'once', 'in', 'out', 'again', 'on', 'a', 'and', 'and', 'and', 'upon', 'a', 'one', 'of', 'as', 'about', 'and', 'and', 'and', 'and', 'and', 'and', 'upon', 'a', 'one', 'of', 'as', 'it', 'it', 'empty', 'of', 'it', 'into', 'one', 'of', 'as', 'it', 'after', 'a', 'as', 'of', 'all', 'at', 'anything', 'about', 'it', 'even', 'if', 'off', 'of', 'an', 'end', 'aloud', 'of', 'earth', 'of', 'in', 'in', 'and', 'and', 'and', 'as', 'as', 'as', 'as', 'opportunity', 'off', 'as', 'one', 'it', 'over', 'about', 'or', 'idea', 'or', 'either', 'again', 'if', 'earth', 'it', 'out', 'among', 'one', 'as', 'it', 'at', 'all', 'ask', 'of', 'is', 'am', 'is', 'or', 'and', 'as', 'as', 'air', 'it', 'an', 'ignorant', 'asking', 'it', 'ask', 'it', 'up', 'else', 'again', 'of', 'at', 'are', 'in', 'air', 'a fraid', 'a', 'and', 'a', 'and', 'on', 'in', 'a', 'ak', 'it', 'up', 'else', 'again', 'of', 'and', 'anwer', 'either', 'it', 'it', 'off', 'and', 'and', 'on', 'in', 'a', 'and', 'and', 'over', 'a', 'and', 'up', 'on', 'in', 'a', 'up', 'a', 'and', 'and', 'oway', 'and', 'in', 'a', 'and', 'up', 'on', 'and', 'and', 'all', 'one', 'and', 'in', 'a', 'ayay', 'and', 'in', 'it', 'a', 'a', 'a', 'a', 'and', 'all', 'and', 'all', 'one', 'and', 'it', 'a', 'about', 'of', 'all', 'and', 'all', 'and', 'it', 'one', 'an', 'about', 'ioches', 'in', 'and', 'it']

['Alice', "'s", 'Adventures', 'Wonderland', '\n', 'ALICE', "'S", 'ADVENTURES', 'IN', 'WONDERLAND', '\n', 'Lewis', 'Ca rroll', '\n', 'THE', 'MILLENNIUM', 'FULCRUM', 'EDITION', '3', '.0', '\n', 'CHAPTER', 'I', '\n', 'Down', 'the', 'Rabbi t', '-Hole', '\n', 'Alice', 'was', 'beginning', 'to', 'get', 'very', 'tired', 'sitting', 'by', 'her', 'sister', '\no 'the', 'bank', ',', 'having', 'nothing', 'to', 'do', ':', 'twice', 'she', 'had', '\npeeped', 'the', 'book', 'he r', 'sister', 'was', 'reading', ',', 'but', 'had', 'no', '\npictures', 'conversations', ',', 'what', 'the', 'book', ', 'thought', 'Alice', 'without', 'pictures', 'conversation', '?', 'So', 'she', 'was', 'considering', 'her', 'min d', 'well', 'she', 'could', ',', 'for', 'the', 'hot', 'day', 'made', 'her', 'feel', 'very', 'sleepy', 'stupid', ')', 'whether', '\nthe', 'pleasure', 'making', 'daisy', '-chain', 'would', 'be', 'worth', 'the', 'trouble', '\nof', 'getti ng', 'picking', 'the', 'daisies', ',', 'when', 'suddenly', 'White', '\nRabbit', 'with', 'pink', 'ran', 'close', 'by', 'her', '.', 'There', 'was', 'nothing', 'so', 'VERY', 'remarkable', 'that', ';', 'nor', 'did', 'Alice', '\nthink', 's o', 'VERY', 'much', 'the', 'way', 'to', 'thear', '!', 'Say', 'to', '\nitself', ',', 'Oh', 'dear', '!', 'Oh', 'dear', '!', 'when', 'she', 'thought', '\nit', ',', 'to', 'her', 'that', 'she', 'thought', '\nit', ' 'to', 'have', '\nwondered', 'this', ',', 'but', 'the', 'time', 'seemed', 'quite', 'natural', ')', 'but', 'when', 'the', 'Rabbit', 'TOOK', 'A', 'WATCH', 'OUT', 'OF', 'ITS', 'WAISTCOAT', '-', 'POCKET', ',', 'looked', ',', 'then', 'hurr ied', ',', 'Alice', 'started', 'to', '\nher', 'feet', ',', 'for', 'flashed', 'her', 'mind', 'that', 'she', 'had', 'ne red , , , Alice , Started , to , \nner', feet , , , for , flashed , her , mind , that , she , had , he
ver', '\nbefore', 'seen', 'rabbit', 'with', 'waistcoat', '-pocket', ',', 'watch', 'to', '\ntake', ',', 'burning', 'wi
th', 'curiosity', ',', 'she', 'ran', 'the', '\nfield', ',', 'fortunately', 'was', 'just', 'time', 'to', 'see', 'pop',
 '\ndown', 'large', 'rabbit', '-hole', 'the', 'hedge', '.', 'In', 'moment', 'down', 'went', 'Alice', ',', 'never', '\n
considering', 'how', 'the', 'world', 'she', 'was', 'to', 'get', '.', 'The', 'rabbit', '-hole', 'went', 'straight', 'l
 ike', 'tunnel', 'for', 'some', 'way', ',', 'then', 'dipped', 'suddenly', 'down', ',', 'so', 'suddenly', 'that', 'Alic
 e', 'had', 'not', '\nmoment', 'to', 'think', 'stopping', 'herself', 'before', 'she', 'found', 'herself', '\nfalling',
 idour', 'weny', 'doen', 'well', 'stopping', 'herself', 'weny', 'doen', 'fell', 'weny', 'sle 'down', 'very', 'deep', 'well', '.', 'Either', 'the', 'well', 'was', 'very', 'deep', ',', 'she', 'fell', 'very', 'slo wly', ',', 'for', 'she', '\nhad', 'plenty', 'time', 'she', 'went', 'down', 'to', 'look', 'her', 'to', '\nwonder', 'wh at', 'was', 'going', 'to', 'happen', 'next', '.', 'First', ',', 'she', 'tried', 'to', 'look', '\ndown', 'make', 'wha t', 'she', 'was', 'coming', 'to', ',', 'but', 'was', 'too', 'dark', 'to', '\nsee', ';', 'then', 'she', 'looked', 'the', 'sides', 'the', 'well', ',', '\nnoticed', 'that', 'they', 'were', 'filled', 'with', 'cupboards', 'book', '-shelves', ';', 'here', 'there', 'she', 'saw', 'maps', 'pictures', 'hung', 'pegs', '.', 'She', '\ntook', 'down', 'jar', 'from', 'the', 'shelves', 'she', 'passed', ';', 'was', '\nlabelled', 'ORANGE', 'MARMALADE', "'", 'but', 'to', 'her', 'gre at', 'disappointment', '\nwas', ':', 'she', 'did', 'not', 'like', 'to', 'drop', 'the', 'jar', 'for', 'fear', 'killin g', '\nsomebody', ',', 'so', 'managed', 'to', 'put', 'the', 'cupboards', 'she', '\nfell', 'past', '.', 'Well', '!', 'thought', 'Alice', 'to', 'herself', ',', 'such', 'fall', 'this', ',', 'I', '\nshall', 'think', 'nothing', 'tumblin g', 'down', 'stairs', '!', 'How', 'brave', 'they', "'ll", '\nall', 'think', 'me', 'home', '!', 'Why', ',', 'I', 'woul "'t", 'say', ',', 'I', 'fell', 'the', 'top', 'the', 'house', '!', 'Which', 'was', 'very', 'likely', '\ntrue', '.', 'Down', ',', 'down', ',', 'down', '.', 'Would', 'the', 'fall', 'NEVER', 'come', 'to', '!', 'I', '\nwonder', 'ho w', 'many', 'miles', 'I', "'ve", 'fallen', 'by', 'this', 'time', '?', 'she', 'said', '.', 'I', 'must', 'be', 'gettin g', 'somewhere', 'near', 'the', 'centre', 'the', '.', 'Let', '\nme', 'see', ':', 'that', 'would', 'be', 'four', 'thou sand', 'miles', 'down', ',', 'I', 'think', '-', 'for', ',', 'you', 'see', ',', 'Alice', 'had', 'learnt', 'several', 'things', 'this', 'sort', 'her', '\nlessons', 'the', 'schoolroom', ',', 'though', 'this', 'was', 'not', 'VERY', 'goo d', '\nopportunity', 'for', 'showing', 'her', 'knowledge', ',', 'there', 'was', 'no', 'to', '\nlisten', 'to', 'her', 'still', 'was', 'good', 'practice', 'to', 'say', ')', 'yes', ',', 'that', "'s", 'the', 'right', 'distance', '-' 'but', 'then', 'I', 'wonder', 'what', 'Latitude', '\nor', 'Longitude', 'I', "'ve", 'got', 'to', '?', 'Alice', 'had', 'no', 'what', 'Latitude', 'was', ',', 'but', 'thought', 'they', 'were', 'nice', 'grand', 'words', 'to', '\nsay', '.', 'Presently', 'she', 'began', '.', 'I', 'wonder', 'I', 'shall', 'fall', 'right', '\nTHROUGH', 'the', '!', 'How', 'funny', "'ll", 'seem', 'to', 'come', 'the', '\npeople', 'that', 'walk', 'with', 'their', 'heads', 'downward', '!', 'The', 'Antipathies', ',', 'I', '\nthink', '-', 'she', 'was', 'rather', 'glad', 'there', 'WAS', 'no', 'listening', ',', 'this', '\ntime', ',', 'didn', "'t", 'sound', 'the', 'right', 'word', ')', 'but', 'I', 'shall', '\n' have', 'to', 'them', 'what', 'the', 'name', 'the', 'country', ',', 'you', 'know', '.', 'Please', ',', 'Ma', "'am", ',', 'this', 'New', 'Zealand', 'Australia', '?', 'she', 'tried', '\nto', 'curtsey', 'she', 'spoke', '-', 'fancy', 'CU RTSEYING', 'you', "'re", 'falling', '\nthrough', 'the', '!', 'Do', 'you', 'think', 'you', 'could', 'manage', '?', 'An d', 'what', '\nan', 'little', 'girl', 'she', "'ll", 'think', 'me', 'for', '!', 'No', ',', "'ll", '\nnever', 'do', 't o', ':', 'perhaps', 'I', 'shall', 'see', 'written', 'somewhere', '.', 'Down', ',', 'down', ',', 'down', '.', 'There', 'was', 'nothing', 'to', 'do', ',', 'so', 'Alice', 'soon', '\nbegan', 'talking', '.', 'Dinah', "'ll", 'miss', 'me', 'v ery', 'much', 'to', '-night', ',', 'I', '\nshould', 'think', '!', 'Dinah', 'was', 'the', 'cat', '.', 'I', 'hope', 'th ey', "'ll", 'remember', '\nher', 'saucer', 'milk', 'tea', '-time', '.', 'Dinah', 'my', 'dear', '!', 'I', 'wish', 'yo u', 'were', '\ndown', 'here', 'with', 'me', '!', 'There', 'no', 'mice', 'the', ',', 'I', "'m", ',', 'but', '\nyou', 'might', 'catch', 'bat', ',', 'that', "'s", 'very', 'like', 'mouse', ',', 'you', 'know', '.', 'But', 'do', 'cats', 'bats', ',', 'I', 'wonder', '?', 'And', 'here', 'Alice', 'began', 'to', 'get', '\nrather', 'sleepy', ',', 'went', 'sayi ng', 'to', 'herself', ',', 'dreamy', 'sort', '\nway', ',', 'Do', 'cats', 'Pats', '?', 'Do', 'cats', 'bats', '?', 'som etimes', ',', 'Do', '\nbats', 'cats', '?', 'for', ',', 'you', 'see', ',', 'she', 'couldn', "'t", '\nquestion', ',', 'didn', "'t", 'much', 'matter', 'which', 'way', 'she', 'put', '.', 'She', 'felt', '\nthat', 'she', 'was', 'dozing', ',', 'had', 'just', 'begun', 'to', 'dream', 'that', 'she', '\nwas', 'walking', 'hand', 'hand', 'with', 'Dinah', ', 'saying', 'to', 'her', 'very', '\nearnestly', ',', 'Now', ',', 'Dinah', ',', 'tell', 'me', 'the', 'truth', ':', 'di d', 'you', '\nbat', '?', 'when', 'suddenly', ',', 'thump', '!', 'thump', '!', 'down', 'she', 'came', 'heap', '\nstick s', 'dry', 'leaves', ',', 'the', 'fall', 'was', '.', 'Alice', 'was', 'not', 'bit', 'hurt', ',', 'she', 'jumped', 't o', 'her', 'feet', '\nmoment', ':', 'she', 'looked', ',', 'but', 'was', 'dark', ';', 'before', 'her', '\nwas', 'lon 'passage', ',', 'the', 'White', 'Rabbit', 'was', 'still', '\nsight', ',', 'hurrying', 'down', '.', 'There', 'wa 'not', 'moment', 'to', 'be', 'lost', ':', 'went', 'Alice', 'like', 'the', 'wind', ',', 'was', 'just', 'time', 't 'hear', '\nsay', ',', 'turned', 'corner', ',', 'Oh', 'my', 'whiskers', ',', 'how', 'late', '\nit', "'s", 'gettin g', '!', 'She', 'was', 'close', 'behind', 'when', 'she', 'turned', 'the', '\ncorner', ',', 'but', 'the', 'Rabbit', 'w as', 'no', 'longer', 'to', 'be', 'seen', ':', 'she', 'found', '\nherself', 'long', ',', 'low', 'hall', ',', 'which', 'was', 'lit', 'by', 'row', 'lamps', '\nhanging', 'from', 'the', 'roof', '.', 'There', 'were', 'doors', 'round', 'th ',', 'but', 'they', 'were', 'locked', ';', 'when', 'Alice', 'had', 'been', 'the', 'way', 'down', 'side', 'the', '\nother', ',', 'trying', 'door', ',', 'she', 'walked', 'sadly', 'down', 'the', 'middle', ',', 'wondering', 'h
ow', 'she', 'was', 'to', 'get', '.', 'Suddenly', 'she', 'came', 'little', 'three', '-legged', 'table', ',', 'made', '\nsolid', 'glass', ';', 'there', 'was', 'nothing', 'tiny', 'golden', 'key', ',', 'Alice', "'s", 'first', 'thought', 'was', 'that', 'might', 'belong', 'to', 'the', '\ndoors', 'the', 'hall', ';', 'but', ',', '!', 'the', 'locks', 'wer e', 'too', 'large', ',', '\nthe', 'key', 'was', 'too', 'small', ',', 'but', 'rate', 'would', 'not', '\nthem', '.', 'H owever', ',', 'the', 'second', 'time', 'round', ',', 'she', 'came', 'low', '\ncurtain', 'she', 'had', 'not', 'notice d', 'before', ',', 'behind', 'was', 'little', '\ndoor', 'fifteen', 'high', ':', 'she', 'tried', 'the', 'little', 'gol den', 'key', '\nin', 'the', 'lock', ',', 'to', 'her', 'great', 'delight', 'fitted', '!', 'THE', 'END']

```
In [78]:
          1 import re
          2 f = open('alice_in_wonderland.txt', encoding='utf-8')
          3 text = f.read()
          4 # print(text)
          5 reg = r'\b[aeiou]\w{2}'
          6 ans = re.findall(reg,text)
          7 print(ans)
```

['and', 'onc', 'int', 'and', 'use', 'own', 'and', 'eye', 'out', 'its', 'ove', 'aft', 'occ', 'oug', 'all', 'ac t', 'and', 'and', 'acr', 'eit', 'out', 'and', 'acr', 'aft', 'and', 'und', 'ano', 'aft', 'onc', 'out', 'aga', 'and', 'abo', 'abo', 'and', 'and', 'out', 'any', 'and', 'and', 'and', 'upo', 'one', 'emp', 'int', 'one', 'aft', 'al l', 'any', 'abo', 'eve', 'off', 'end', 'alo', 'ear', 'and', 'opp', 'off', 'one', 'ove', 'abo', 'ide', 'eit', 'aga', 'ear', 'out', 'amo', 'one', 'all', 'ask', 'and', 'air', 'ign', 'ask', 'ask', 'els', 'aga', 'are', 'air', 'afr', 'an d', 'eat', 'and', 'eat', 'eat', 'and', 'eat', 'ans', 'eit', 'off', 'and', 'and', 'ear', 'eve', 'eat', 'upo', 'and', 'and', 'ove', 'and', 'all', 'ove', 'ano', 'and', 'awa', 'and', 'ear', 'and', 'all', 'all', 'and', 'all', 'one', 'an d', 'oth', 'eve', 'eve', 'out', 'aga', 'upo', 'all', 'exc', 'and', 'one', 'ala', 'eit', 'any', 'ope', 'any', 'upo', 'and', 'abo', 'inc', 'and']

```
1 import re
In [79]:
          2 f = open('alice_in_wonderland.txt', encoding='utf-8')
          3 text = f.read()
          4 | # print(text)
          5 reg = r'\b[aeiou]\w{2}\b'
          6 ans = re.findall(reg,text)
          7 print(ans)
```

['and', 'and', 'use', 'own', 'and', 'and', 'all', 'and', 'and', 'out', 'and', ' d', 'out', 'and', 'and', 'and', 'and', 'one', 'one', 'all', 'off', 'end', 'and', 'off', 'one', 'out', 'one', 'all', 'ask', 'and', 'air', 'ask', 'are', 'air', 'and', 'eat', 'and', 'eat', 'and', 'eat', 'off', 'and', 'and', 'ea t', 'and', 'and', 'and', 'all', 'and', 'and', 'all', 'all', 'and', 'all', 'one', 'and', 'out', 'all', 'and', 'one', 'any', 'any', 'and', 'and']

In [ ]: