

```
! pip install nltk
        Requirement already satisfied: nltk in /usr/10ca1/1ib/python3.10/dist-packages (3.8.1)
        Requirement already satisfied: click in /usr/10ca1/1ib/python3.10/dist-packages (from nltk) (8.1.6)
        Requirement already satisfied: joblib in /usr/10ca1/1ib/python3.10/dist-packages (from nltk) (1.3.2)
        Requirement already satisfied:
                                             regex>=2021.8.3 in /usr/10ca1/1ib/python3.10/dist-packages (from nltk) (2023.6.3)
        Requirement already satisfied: tqdm in /usr/10ca1/1ib/python3.10/dist-packages (from nltk) (4.66.1)
  import nltk
  nltk. download( ' punkt' )
        [nltk data] Downloading package punkt to / root/nltk data. . .
        [nltk data] Package punkt is already up-to-date! True
▼ Sentence Tokenization
  from nltk.tokenize import sent tokenize
           'Stephenson 2-18 is now known as being one of the largest, if not the current largest star ever discovered, surpassing other stars 1 Stephenson
           2-18 has a radius of 2,150 solar radii, being larger than almost the entire orbit of Saturn (1,940
                                                                                                             2,169 solar radii).'.
  text
        Stephenson 2-18 is now known as being one of the largest, if not the current largest star ever
        discovered, surpassing other stars like VY Canis Majoris and IJY Scuti. \n q•t-ønhøncnn O -
       IR hac a radius a-F 1:0 solar rad •i * hAino 1 Than *Imncz-t- •t-høentin
  sentences = sent tokenize (text)
  sentences
        ['Stephenson 2-18 is now known as being one of the largest, if not the current largest star ever discovered, surpassing other stars like VY Canis
        Majoris and IJY Scuti.',
              'Stephenson 2-18 has a radius of 2,150 solar radii, being larger than almost the entire orbit of Saturn (1,940
                                                                                                                                     2,169 solar radii) .' ]
  Word Tokenization
  from nltk.tokenize import word tokenize
  words = word tokenize (text)
  words
        [ 'Stephenson',
```

'2-18'..is

'now',

'known', as'

'being', one ' ' of', 'the',

'largest',

' if '

'not',

'the', current',

'largest',

'star'.

for w in words: print (w)

```
'ever', 'discovered',
surpassing', other', stars''like',
                                                           'Canis',
'Majoris',
                                                            'and',
                                                            'UY',
                                                           'Scuti',
                                                                                                                             "Stephenson ' "
'2-18',
'has', a'
' radius'
,
'2, 150
', 'solar'
, radii '
being' l' larger',
                                                            'than',
                                                           'almost',
                                                            'the',
                                                           'entire'
'orbit', 'of',
                                                            Saturn '
                                                          '1,940',
                                                          '2, 169',
                                                           'solar',
                                                           ' radii '
```

1,940

2, 169 solar radii

being'. 'larger',

```
2-18 is now known as being one Of the largest
if not the current largest star ever discovered
surpassing other stars like
Canis Majoris and IJY
Scuti
Stephenson 2-18 has a radius of 2, 150 solar
being
than
almost the entire orbit of Saturn
```



```
sent_tokenize (text)
     ['Stephenson 2-18 is now known as being one of the largest, if not the current largest star ever discovered, surpassing other stars like VY
     Canis Majoris and UY Scuti.',
           'Stephenson 2-18 has a radius of 2,150 solar radii, being larger than almost the entire orbit of Saturn (1, 940
[word tokenize (text) for t in sent tokenize(text)]
     [['Stephenson',
       '2-18',
        is 'mow',
        ' known '
        'being', one '
        'Of',
        'the', largest',
        'if',
       'not',
        'the', current', 'largest', star',
        'ever',
        ' discovered',
        surpassing',
        ' other',
        'stars',
        'like',
        'Canis'
        'Majoris ', 'and',
        'Scuti',
        "Stephenson',
        ' 2-18 '
        'has',
        a'
        ' radius '
        ' of',
        ' 2, 150
        solar',
        , radii
```

2,169 solar radii) .']

```
'than',
       'almost',
       'the',
       'entire'
       'orbit',
       'Of',
       Saturn '
       ' 1, 940
       '2, 169
       solar',
       radii '
from nltk.tokenize import wordpunct_tokenize
wordpunct_tokenize (text)
     [ 'Stephenson',
     '2',
      '18', sis', now',
      'known', as'
      'being',
      'one',
      'the', largest',
      'if',
      'not', 'the', current', largest', 'star', ever'
      ' discovered',
      surpassing',
      'other',
      ' stars '
      'like',
      'Canis'
      'Majoris',
      'and',
      'UY',
      'Scuti',
      Stephenson '.
      '2',
      '18',
      'has', 'a', radius'
      'Of',
      '150',
      'solar', radii',
      being',
      'larger',
      'than',
      'almost',
      'the', 'entire', 'orbit', 'Of',
      Saturn '
```

▼ Filteration of Text by converting into lower case

text . lower()

stephenson 2-18 i s now known as being one of the largest, if not the current lar gest star ever discovered, surpassing other stars like vy canis majoris and uy sc c tanhønenn

7 -IR hac: a radius of 21 SR cm In r' no I tl

text . upper ()

 $\tt STEPHENSON$ 2-18 IS NOW KNOWN AS BEING ONE OF THE LARGEST, IF NOT THE CURRENT LAR GEST STAR EVER DISCOVERED, SURPASSING OTHER STARS LIKE VY CANIS MAJORIS AND LJY SC

I ITT \ n STEPHENSON '-IR ARADTUS OF 2 ISA gnl AR RAnTT RFTNG I

THA

Colab paid products - Cancel contracts here s/ Os completed at 14:33