

```
In [1]: !pip install PyPDF2
```

Collecting PyPDF2

Downloading pypdf2-3.0.1-py3-none-any.whl.metadata (6.8 kB)

Downloading pypdf2-3.0.1-py3-none-any.whl (232 kB)

```
----- 0.0/232.6 kB ? eta -:--:--
- 10.2/232.6 kB ? eta -:--:--
- 10.2/232.6 kB ? eta -:--:--
- 10.2/232.6 kB ? eta -:--:--
----- 71.7/232.6 kB 393.8 kB/s eta 0:00:01
----- 71.7/232.6 kB 393.8 kB/s eta 0:00:01
----- 122.9/232.6 kB 514.3 kB/s eta 0:00:01
----- 122.9/232.6 kB 514.3 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 174.1/232.6 kB 499.5 kB/s eta 0:00:01
----- 225.3/232.6 kB 320.0 kB/s eta 0:00:01
----- 232.6/232.6 kB 316.3 kB/s eta 0:00:00
```

Installing collected packages: PyPDF2

Successfully installed PyPDF2-3.0.1

```
In [37]: import PyPDF2
        from PyPDF2 import PdfFileReader
```

```
In [39]: PyPDF2.__version__
```

```
Out[39]: '3.0.1'
```

```
In [41]: pdf = open(r"C:\Users\Vaish\Desktop\NLP(AD)\file1pdf.pdf", "rb")
        pdf_reader = PyPDF2.PdfReader(pdf)
        print("Number of pages:", len(pdf_reader.pages))
        page=pdf_reader.pages[1]
        print(page.extract_text())
        pdf.close()
```

Development Plan for Greater Mumbai 2014-2034

Acknowledgements

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☐ Mr. A.G. Marathe, Deputy Chief Engineer Development Plan;

☐ Mr. R. Balachandran, Executive Engineer and Town Planning Officer, Development Plan.

Our gratitude to the following experts for their invaluable insights and support:

☐

Mr. V.K Phatak, Former Chief Town Planner (MMRDA);

☐ Mr. A.N Kale, Former Chief Engineer, (DP);

☐ Mr. A. S Jain Former Dy. Chief Engineer, (DP).

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other government departments and organizations. Many thanks for the MCGM team, for

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understanding actual ground conditions.

We apologize if we have inadvertently omitted anyone to whom acknowledgement is due. We hope

and anticipate the work's usefulness for the intended purpose.

```
In [43]: import PyPDF2,urllib,nltk
        from io import BytesIO
        from nltk.tokenize import word_tokenize
        from nltk.corpus import stopwords
```

```
In [45]: #Reading the PDF
wFile = urllib.request.urlopen('http://www.udri.org/pdf/02%20working%20paper%201.pdf')
pdfreader = PyPDF2.PdfReader(BytesIO(wFile.read()))
```

In [51]: *#extracting page 2 of the docuemnt*

```
pageObj = pdfreader.pages[2]
page2 = pageObj.extract_text()
punctuations = ['(', ')', ';', ':', '[', ']', ',', '...', '.']
tokens = word_tokenize(page2)
stop_words = stopwords.words('english')
keywords = [word for word in tokens if not word in stop_words and not word in punct]
```

In [53]: keywords

```
Out[53]: ['Development',
          'Plan',
          'Greater',
          'Mumbai',
          '2014-2034',
          'Table',
          'Contents',
          'The',
          'Consultant',
          'wishes',
          'thank',
          'following',
          'individuals',
          'Municipal',
          'Corporation',
          'Greater',
          'Mumbai',
          'invaluable',
          'support',
          'insights',
          'contributions',
          'towards',
          '',
          'Working',
          'Paper',
          '1',
          '-',
          'Preparation',
          'Base',
          'Map',
          '',
          'preparation',
          'Development',
          'Plan',
          'Greater',
          'Mumbai',
          '2014-34',

          '.....',
          '.....',
          '.....',
          '3',
          'Our',
          'gratitude',
          'following',
          'experts',
          'invaluable',
          'insights',
          'support',
          '.....',
          '3',
          'We',
          'wish',
          'especially',
          'thank',
          'MCGM',
```

'officers',
'Mr.',
'Jagdish',
'Talreja',
'Mr.',
'Dinesh',
'Naik',
'Mr.',
'Hiren',
'Daftardar',
'Ms.',
'Anita',
'Naik',
'continual',
'support',
'since',
'beginning',
'project',
'help',
'towards',
'familiarization',
'data',
'collection',
'They',
'instrumental',
'helping',
'contact',
'various',
'MCGM',
'departments',
'well',
'helping',
'establish',
'contact',
'personnel',
'government',
'departments',
'organizations',
'Many',
'thanks',
'MCGM',
'team',
'deploying',
'personnel',
'particularly',
'Mr.',
'Prasad',
'Gharat',
'extensive',
'field',
'visits',
'helped',
'understanding',
'actual',
'ground',
'conditions',

'
.....',
'3',
'BEST',

'
.....',
'',
'5',
'Brihanmumbai',
'Electric',
'Supply',
'Transport',
'Undertaking',
'',
'5',
'CIDCO',

'
.....',
'',
'5',
'City',
'Industrial',
'Development',
'Corporation',

'',
'5',
'CTP',

'
.....',
'',
'5',
'Comprehensive',
'Transportation',
'Plan',

'
.....',
'5',
'DP',

'
.....',
'',
'5',
'Development',
'Plan',

'
.....',
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'DPGM34',

'
.....',
'',
'5',
'Development',
'Plan',
'Greater',
'Mumbai',
'2034',

'
.....',
'5',
'DCR',

'
.....',
'',
'5',
'Development',
'Control',
'Regulations',

'
.....',
'5',
'DGPS',

'
.....',
'',
'5',
'Digital',
'Global',
'Positioning',
'System',

'
.....',
'5',
'DPGM',

'
.....',
'',
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'Development',
'Plan',
'Greater',
'Mumbai',

'
.....',
'5',
'ELU',

```

'.....
'.....',
'.....',
'5',
'Existing',
'Land',
'use',

'.....
'.....',
'5',
'FSI',

'.....
'.....',
'5',
'Floor',
'Space',
'Index',

'.....
'.....',
'5',
'GIS',

'.....
'.....',
'5']

```

```

In [57]: name_list = list()
check = ['Mr.', 'Mrs.', 'Ms.']
for idx, token in enumerate(tokens):
    if token.startswith(tuple(check)) and idx < (len(tokens)-1):
        name = token + tokens[idx+1] + ' ' + tokens[idx+2]
        name_list.append(name)
print(name_list)

```

```

['Mr.Jagdish Talreja', 'Mr.Dinesh Naik', 'Mr.Hiren Daftardar', 'Ms.Anita Naik', 'Mr.
Prasad Gharat']

```

```

In [59]: wFile.close()

```

```

In [61]: !pip install python-docx

```


Collecting python-docx

Downloading python_docx-1.1.2-py3-none-any.whl.metadata (2.0 kB)

Requirement already satisfied: lxml>=3.1.0 in c:\users\vaish\anaconda3\lib\site-packages (from python-docx) (5.2.1)

Requirement already satisfied: typing-extensions>=4.9.0 in c:\users\vaish\anaconda3\lib\site-packages (from python-docx) (4.12.2)

Downloading python_docx-1.1.2-py3-none-any.whl (244 kB)

```
----- 0.0/244.3 kB ? eta -:--:--
- ----- 10.2/244.3 kB ? eta -:--:--
----- 30.7/244.3 kB 163.8 kB/s eta 0:00:02
----- 30.7/244.3 kB 163.8 kB/s eta 0:00:02
----- 41.0/244.3 kB 150.6 kB/s eta 0:00:02
----- 41.0/244.3 kB 150.6 kB/s eta 0:00:02
----- 71.7/244.3 kB 196.3 kB/s eta 0:00:01
----- 71.7/244.3 kB 196.3 kB/s eta 0:00:01
----- 71.7/244.3 kB 196.3 kB/s eta 0:00:01
----- 153.6/244.3 kB 327.3 kB/s eta 0:00:01
----- 153.6/244.3 kB 327.3 kB/s eta 0:00:01
----- 163.8/244.3 kB 272.8 kB/s eta 0:00:01
----- 235.5/244.3 kB 400.1 kB/s eta 0:00:01
----- 244.3/244.3 kB 394.1 kB/s eta 0:00:00
```

Installing collected packages: python-docx

Successfully installed python-docx-1.1.2

```
In [69]: import docx
```

```
In [77]: docu = open(r"C:\Users\Vaish\Downloads\Exercise 6 (1).docx", "rb")
document=docx.Document(doc)
```

```
In [79]: docu=""
for para in document.paragraphs:
    docu += para.text
print(docu)
```

Exercise: 6 Create an android application using Explicit Intent. Right-click on the java folder in the project structure. Select New > Activity > Empty Activity. Name the new activity (e.g., SecondActivity). Click "Finish."

activity_main.xml: -<?xml version="1.0" encoding="utf-8"?><RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout_width="match_parent" android:layout_height="match_parent"> <Button android:id="@+id/button_navigate" android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Go to Second Activity" android:layout_centerInParent="true"/></RelativeLayout>

activity_second.xml: -<?xml version="1.0" encoding="utf-8"?><RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout_width="match_parent" android:layout_height="match_parent"> <TextView android:id="@+id/text_welcome" android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Welcome to the Second Activity!" android:textSize="24sp" android:layout_centerHorizontal="true" android:layout_marginTop="50dp" /> <TextView android:id="@+id/text_subtitle" android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Here you can add more information." android:textSize="16sp" android:layout_below="@id/text_welcome" android:layout_centerHorizontal="true" android:layout_marginTop="20dp" /> <Button android:id="@+id/button_back" android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Go Back" android:layout_below="@id/text_subtitle" android:layout_centerHorizontal="true" android:layout_marginTop="30dp" /></RelativeLayout>

MainActivity.java: -package com.example.explicitintent; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Button; import androidx.appcompat.app.AppCompatActivity; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); Button buttonNavigate = findViewById(R.id.button_navigate); buttonNavigate.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { // Create an explicit intent to start the SecondActivity Intent intent = new Intent(MainActivity.this, SecondActivity.class); startActivity(intent); } }); }

SecondActivity.java: -package com.example.explicitintent; import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Button; import androidx.appcompat.app.AppCompatActivity; public class SecondActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_second); setTitle("Second Activity"); Button buttonBack = findViewById(R.id.button_back); buttonBack.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { // Finish the current activity and return to the main activity finish(); } }); }

Output:-

```
In [83]: for i in range(len(document.paragraphs)):
         print("The content of the paragraph"+str(i)+" is:"+document.paragraphs[i].text+

```

The content of the paragraph0 is:Exercise: 6

The content of the paragraph1 is:Create an android application using Explicit Intent.

The content of the paragraph2 is:

The content of the paragraph3 is:Right-click on the java folder in the project structure.

The content of the paragraph4 is:Select New > Activity > Empty Activity.

The content of the paragraph5 is:Name the new activity (e.g., SecondActivity).

The content of the paragraph6 is:Click "Finish."

The content of the paragraph7 is:activity_main.xml:-

The content of the paragraph8 is:<?xml version="1.0" encoding="utf-8"?>

The content of the paragraph9 is:<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

The content of the paragraph10 is: android:layout_width="match_parent"

The content of the paragraph11 is: android:layout_height="match_parent">

The content of the paragraph12 is:

The content of the paragraph13 is: <Button

The content of the paragraph14 is: android:id="@+id/button_navigate"

The content of the paragraph15 is: android:layout_width="wrap_content"

The content of the paragraph16 is: android:layout_height="wrap_content"

The content of the paragraph17 is: android:text="Go to Second Activity"

The content of the paragraph18 is: android:layout_centerInParent="true"/>

The content of the paragraph19 is:</RelativeLayout>

The content of the paragraph20 is:activity_second.xml:-

The content of the paragraph21 is:<?xml version="1.0" encoding="utf-8"?>

The content of the paragraph22 is:<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

The content of the paragraph23 is: android:layout_width="match_parent"

The content of the paragraph24 is: android:layout_height="match_parent">

The content of the paragraph25 is:

The content of the paragraph26 is:	<TextView
The content of the paragraph27 is:	android:id="@+id/text_welcome"
The content of the paragraph28 is:	android:layout_width="wrap_content"
The content of the paragraph29 is:	android:layout_height="wrap_content"
The content of the paragraph30 is:	android:text="Welcome to the Second Activi
ty!"	
The content of the paragraph31 is:	android:textSize="24sp"
The content of the paragraph32 is:	android:layout_centerHorizontal="true"
The content of the paragraph33 is:	android:layout_marginTop="50dp" />
The content of the paragraph34 is:	
The content of the paragraph35 is:	<TextView
The content of the paragraph36 is:	android:id="@+id/text_subtitle"
The content of the paragraph37 is:	android:layout_width="wrap_content"
The content of the paragraph38 is:	android:layout_height="wrap_content"
The content of the paragraph39 is:	android:text="Here you can add more inform
ation."	
The content of the paragraph40 is:	android:textSize="16sp"
The content of the paragraph41 is:	android:layout_below="@id/text_welcome"
The content of the paragraph42 is:	android:layout_centerHorizontal="true"
The content of the paragraph43 is:	android:layout_marginTop="20dp" />
The content of the paragraph44 is:	
The content of the paragraph45 is:	<Button
The content of the paragraph46 is:	android:id="@+id/button_back"
The content of the paragraph47 is:	android:layout_width="wrap_content"
The content of the paragraph48 is:	android:layout_height="wrap_content"
The content of the paragraph49 is:	android:text="Go Back"
The content of the paragraph50 is:	android:layout_below="@id/text_subtitle"
The content of the paragraph51 is:	android:layout_centerHorizontal="true"
The content of the paragraph52 is:	android:layout_marginTop="30dp" />

The content of the paragraph53 is:</RelativeLayout>

The content of the paragraph54 is:MainActivity.java:-

The content of the paragraph55 is:package com.example.explicitintent;

The content of the paragraph56 is:import android.content.Intent;

The content of the paragraph57 is:import android.os.Bundle;

The content of the paragraph58 is:import android.view.View;

The content of the paragraph59 is:import android.widget.Button;

The content of the paragraph60 is:import androidx.appcompat.app.AppCompatActivity;

The content of the paragraph61 is:

The content of the paragraph62 is:public class MainActivity extends AppCompatActivity {

The content of the paragraph63 is: @Override

The content of the paragraph64 is: protected void onCreate(Bundle savedInstanceState) {

The content of the paragraph65 is: super.onCreate(savedInstanceState);

The content of the paragraph66 is: setContentView(R.layout.activity_main);

The content of the paragraph67 is:

The content of the paragraph68 is: Button buttonNavigate = findViewById(R.id.button_navigate);

The content of the paragraph69 is: buttonNavigate.setOnClickListener(new View.OnClickListener() {

The content of the paragraph70 is: @Override

The content of the paragraph71 is: public void onClick(View v) {

The content of the paragraph72 is: // Create an explicit intent to start the SecondActivity

The content of the paragraph73 is: Intent intent = new Intent(MainActivity.this, SecondActivity.class);

The content of the paragraph74 is: startActivity(intent);

The content of the paragraph75 is: }

The content of the paragraph76 is: });

The content of the paragraph77 is: }

The content of the paragraph78 is:}

The content of the paragraph79 is:SecondActivity.java:-

The content of the paragraph80 is:package com.example.explicitintent;

The content of the paragraph81 is:

The content of the paragraph82 is:import android.content.Intent;

The content of the paragraph83 is:import android.os.Bundle;

The content of the paragraph84 is:import android.view.View;

The content of the paragraph85 is:import android.widget.Button;

The content of the paragraph86 is:import androidx.appcompat.app.AppCompatActivity;

The content of the paragraph87 is:

The content of the paragraph88 is:public class SecondActivity extends AppCompatActivity {

The content of the paragraph89 is:

The content of the paragraph90 is: @Override

The content of the paragraph91 is: protected void onCreate(Bundle savedInstanceState) {

The content of the paragraph92 is: super.onCreate(savedInstanceState);

The content of the paragraph93 is: setContentView(R.layout.activity_second);

The content of the paragraph94 is: setTitle("Second Activity");

The content of the paragraph95 is:

The content of the paragraph96 is: Button buttonBack = findViewById(R.id.button_back);

The content of the paragraph97 is: buttonBack.setOnClickListener(new View.OnClickListener() {

The content of the paragraph98 is: @Override

The content of the paragraph99 is: public void onClick(View v) {

The content of the paragraph100 is: // Finish the current activity and return to the main activity

The content of the paragraph101 is: finish();

The content of the paragraph102 is: }

The content of the paragraph103 is: });

The content of the paragraph104 is: }

The content of the paragraph105 is:}

The content of the paragraph106 is:Output:-

The content of the paragraph107 is:

Collecting data from HTML

```
In [86]: !pip install bs4
```

```
Collecting bs4
  Downloading bs4-0.0.2-py2.py3-none-any.whl.metadata (411 bytes)
Requirement already satisfied: beautifulsoup4 in c:\users\vaish\anaconda3\lib\site-packages (from bs4) (4.12.3)
Requirement already satisfied: soupsieve>1.2 in c:\users\vaish\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.5)
Downloading bs4-0.0.2-py2.py3-none-any.whl (1.2 kB)
Installing collected packages: bs4
Successfully installed bs4-0.0.2
```

```
In [89]: import urllib.request as urllib2
        from bs4 import BeautifulSoup
```

```
In [91]: response = urllib2.urlopen('https://en.wikipedia.org/wiki/Natural_language_processing')
        html_doc = response.read()
```

```
In [95]: soup = BeautifulSoup(html_doc, 'html.parser')
        strhtml = soup.prettify()
        print (strhtml[:5000])
```

```
<!DOCTYPE html>
<html class="client-nojs vector-feature-language-in-header-enabled vector-feature-la
nue-in-main-page-header-disabled vector-feature-page-tools-pinned-disabled vector
-features-toc-pinned-clientpref-1 vector-feature-main-menu-pinned-disabled vector-fea
ture-limited-width-clientpref-1 vector-feature-limited-width-content-enabled vector-
feature-custom-font-size-clientpref-1 vector-feature-appearance-pinned-clientpref-1
vector-feature-night-mode-enabled skin-theme-clientpref-day vector-sticky-header-ena
bled vector-toc-available" dir="ltr" lang="en">
<head>
<meta charset="utf-8"/>
<title>
Natural language processing - Wikipedia
</title>
<script>
(function(){var className="client-js vector-feature-language-in-header-enabled ve
ctor-feature-language-in-main-page-header-disabled vector-feature-page-tools-pinned-
disabled vector-feature-toc-pinned-clientpref-1 vector-feature-main-menu-pinned-disa
bled vector-feature-limited-width-clientpref-1 vector-feature-limited-width-content-
enabled vector-feature-custom-font-size-clientpref-1 vector-feature-appearance-pinne
d-clientpref-1 vector-feature-night-mode-enabled skin-theme-clientpref-day vector-st
icky-header-enabled vector-toc-available";var cookie=document.cookie.match(/(?:^|; )
enwikimwclientpreferences=([^;]+)/);if(cookie){cookie[1].split('%2C').forEach(func
tion(pref){className=className.replace(new RegExp('(\\s'+pref.replace(/-/g,'')+'-cl
ientpref-\\w+($|\\W-)+/g','')+'-clientpref-\\w+( |$)'),'$1'+pref+'$2');});}document
.className=className;})();RLCONF={"wgBreakFrames":false,"wgSeparatorTransformTabl
e":["",""],"wgDigitTransformTable":["",""],"wgDefaultDateFormat":"dmy",
"wgMonthNames":["","January","February","March","April","May","June","July","Augus
t","September","October","November","December"],"wgRequestId":"bb8cccb-931f-4281-a
af8-3aff8c9effb8","wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgN
amespaceNumber":0,"wgPageName":"Natural_language_processing","wgTitle":"Natural langua
ge processing","wgCurRevisionId":1274942014,"wgRevisionId":1274942014,"wgArticleId":
21652,"wgIsArticle":true,"wgIsRedirect":false,"wgAction":"view","wgUserName":null,"w
gUserGroups":["*"],"wgCategories":["All accuracy disputes","Accuracy disputes from D
ecember 2013","Harv and Sfn no-target errors","CS1 errors: periodical ignored","CS1
maint: location","Articles with short description","Short description is different f
rom Wikidata","Articles needing additional references from May 2024","All articles n
eeding additional references","All articles with unsourced statements","Articles wit
h unsourced statements from May 2024","Commons category link from Wikidata",
"Natural language processing","Computational fields of study","Computational linguis
tics","Speech recognition"],"wgPageViewLanguage":"en","wgPageContentLanguage":"e
n","wgPageContentModel":"wikitext","wgRelevantPageName":"Natural_language_processin
g","wgRelevantArticleId":21652,"wgIsProbablyEditable":true,"wgRelevantPageIsProbably
Editable":true,"wgRestrictionEdit":[],"wgRestrictionMove":[],"wgNoticeProject":"wiki
pedia","wgCiteReferencePreviewsActive":false,"wgFlaggedRevsParams":{"tags":{"statu
s":{"levels":1}}},"wgMediaViewerOnClick":true,"wgMediaViewerEnabledByDefault":tru
e,"wgPopupsFlags":0,"wgVisualEditor":{"pageLanguageCode":"en","pageLanguageDir":"lt
r","pageVariantFallbacks":"en"},"wgMFDisplayWikibaseDescriptions":{"search":true,"wa
tchlist":true,"tagline":false,"nearby":true},"wgWMESchemaEditAttemptStepOversample":
false,"wgWMEPageLength":60000,"wgEditSubmitButtonLabelPublish":true,"wgULSPositio
n":"interlanguage","wgULSisCompactLinksEnabled":false,"wgVector2022LanguageInHeade
r":true,
"wgULSisLanguageSelectorEmpty":false,"wgWikibaseItemId":"Q30642","wgCheckUserClientH
intsHeadersJsApi":["brands","architecture","bitness","fullVersionList","mobile","mod
el","platform","platformVersion"],"GEHomepageSuggestedEditsEnableTopics":true,"wgGET
opicsMatchModeEnabled":false,"wgGESTstructuredTaskRejectionReasonTextInputEnabled":fal
se,"wgGELevelingUpEnabledForUser":false};RLSTATE={"ext.globalCssJs.user.styles":"rea
```



```
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su
```

In []: