```
In [4]: # version finale du script encodage automatique
        # import des librairies
        import json
        import os
        import re
        from lxml import etree
        from lxml import etree as ET
        import dateparser
        import datetime
        def generate id(tag):
             """Génère un identifiant unique pour une balise en fonction de son type."""
            if tag not in ids:
                ids[tag] = 1
            else:
                ids[tag] += 1
            return f"{tag}{ids[tag]}"
        def write comment(filename):
             """fonction qui génère un commentaire lors du changement de page"""
            filename = os.path.basename(filename)
            comment_text = f"New page added from {filename}"
            comment element = ET.Comment(comment text)
            return comment element
        def create teiheader():
             """ cette fonction crée le teiHeader """
            # fileDesc
            fileDesc = ET.SubElement(teiHeader , "fileDesc")
            # Titre
            global titleStmt
            titleStmt = ET.SubElement(fileDesc , "titleStmt")
            title fr = ET.SubElement(titleStmt, "title", type ="main")
            title fr.attrib["{http://www.w3.org/XML/1998/namespace}lang"] = "fr"
            title_fr.text = "Journal officiel de la République française. Débats parlementaires"
            title_en = ET.SubElement(titleStmt, "title", type ="main")
            title en.attrib["{http://www.w3.org/XML/1998/namespace}lang"] = "en"
            title en.text = "Official Journal of the French Republic. Parliamentary debates"
            title_sub_fr = ET.SubElement(titleStmt, "title", type ="sub")
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title sub fr.attrib["{http://www.w3.org/XML/1998/namespace}lang"] = "fr"
title sub fr.text = "Chambre des députés : compte rendu in-extenso"
title_sub_en = ET.SubElement(titleStmt, "title", type ="sub")
title sub en.attrib["{http://www.w3.org/XML/1998/namespace}lang"] = "en"
title_sub_en.text = "Chamber of Deputies: verbatim report"
# respStmt
personnes = {"Brunel TCHEKELI": "id-hal", "Marie PUREN": "id-hal", "Pierre VERNUS": "id-hal", "Fanny LEBRETON" : "id-hal"}
# Boucle pour créer respStmt pour chaque personne
for personne, identifiant in personnes.items():
    respStmt = ET.SubElement(titleStmt , "respStmt")
    persName = ET.SubElement(respStmt , "persName")
    forename = ET.SubElement(persName , "forename")
    surname = ET.SubElement(persName , "surname")
    # Définir l'attribut xml:id pour l'élément ptr
    #ptr = ET.SubElement(persName, "ptr")
    #ptr.attrib["type"] = identifiant
    # Définir le texte pour forename et surname
    forename.text = personne.split()[0] # Utiliser le prénom de la personne
    surname.text = personne.split()[1] # Utiliser le nom de famille de la personne
    # Vérifier si la personne est "Brunel TCHEKELI"
    if personne == "Brunel TCHEKELI":
        # Ajouter l'élément ptr avec les attributs appropriés
        resp fr = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "fr"})
        resp fr.text = "Amélioration du script de transformation du JSON en XML-TEI et ajout automatique des balises TEI par des script
        resp_en = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "en"})
        resp en.text = "Improved scripting for transforming JSON into XML-TEI and automatic addition of TEI tags by Python scripts"
    # Vérifier si la personne est " Fanny Lebreton"
    if personne == "Fanny LEBRETON":
        # Ajouter l'élément ptr avec les attributs appropriés
        resp fr = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "fr"})
        resp fr.text = "Ajout automatique des balises TEI par des scripts Python"
        resp_en = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "en"})
        resp en.text = "Transformation from JSON to XML-TEI and automatic addition of TEI tags by Python scripts"
    # Vérifier si la personne est "Marie PUREN"
    if personne == "Marie PUREN":
        # Ajouter l'élément ptr avec les attributs appropriés
        ptr = ET.SubElement(persName, "ptr", type= identifiant, target=personne)
        ptr = ET.SubElement(persName, "ptr", type="orcid", target="0000-0001-5452-3913")
        resp_fr = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "fr"})
        resp fr.text = "agoda schema.rng"
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resp_en = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "en"})
        resp en.text = "agoda schema.rng"
    # Vérifier si la personne est "Pierre VERNUS"
    if personne == "Pierre VERNUS" :
        # Ajouter l'élément ptr avec les attributs standard
        ptr = ET.SubElement(persName, "ptr", type=identifiant, target=personne)
        ptr = ET.SubElement(persName, "ptr", type="orcid", target="0000-0001-5452-3913")
        resp fr = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "fr"})
        resp fr.text = "TEI Header"
        resp en = ET.SubElement(respStmt, "resp", {"{http://www.w3.org/XML/1998/namespace}lang": "en"})
        resp_en.text = "TEI Header"
# Création de l'élément funder
funder = ET.SubElement(titleStmt, "funder")
# Création des éléments orgName avec les attributs xml:lang correspondants
orgName_fr = ET.SubElement(funder, "orgName", {"{http://www.w3.org/XML/1998/namespace}lang": "fr"})
orgName fr.text = "Bibliothèque nationale de France"
orgName_en = ET.SubElement(funder, "orgName", {"{http://www.w3.org/XML/1998/namespace}lang": "en"})
orgName_en.text = "National Library of France"
# Ajout de extent avec les informations sur le nombre de page, le nombre de mots etc (plus tard)
extent= ET.SubElement(fileDesc, "extent")
measure_pages_fr = ET.SubElement(extent, "measure", {"quantity": "1", "{http://www.w3.org/XML/1998/namespace}lang": "fr"})
measure pages fr.text = "pages"
measure pages en = ET.SubElement(extent, "measure", {"quantity": "1", "{http://www.w3.org/XML/1998/namespace}lang": "en"})
measure_pages_en.text = "pages"
measure utterances en = ET.SubElement(extent, "measure", {"quantity": "1", "{http://www.w3.org/XML/1998/namespace}lang": "en"})
measure utterances en.text = "utterances"
measure words en = ET.SubElement(extent, "measure", {"quantity": "1", "{http://www.w3.org/XML/1998/namespace}lang": "en"})
measure words en.text = "words"
global publicationStmt
publicationStmt = ET.SubElement(fileDesc , "publicationStmt")
publisher = ET.SubElement(publicationStmt, "publisher")
publisher.text = "AGODA"
authority = ET.SubElement(publicationStmt, "authority")
authority.text = "Bnf Datalab"
availability = ET.SubElement(publicationStmt, "availability", status="restricted", n="cc-by")
licence = ET.SubElement(availability, "licence", target="https://creativecommons.org/licenses/by/4.0/")
# ajout de La date
now = datetime.datetime.now()
date = ET.SubElement(publicationStmt, "date", {"when": now.strftime("%Y-%m-%d")})
```

```
# date générée automatiquement en utilisant la méthode now() de la classe datetime.datetime et
    # le format est défini avec strftime() en utilisant le modèle "AAAA-MM-JJ"
    # ajout de la dsourceDesc
   sourceDesc = ET.SubElement(fileDesc , "sourceDesc")
   biblFull = ET.SubElement(sourceDesc, "biblFull")
   titleStmt sDc = ET.SubElement(biblFull, "titleStmt")
   title sDc = ET.SubElement(titleStmt sDc, "title")
   title sDc.text = '''Journal officiel de la République française. Débats parlementaires.
                           Chambre des députés : compte rendu in-extenso'''
   global publicationStmt sDc
    publicationStmt sDc = ET.SubElement(biblFull , "publicationStmt")
   publisher sDc fr = ET.SubElement(publicationStmt sDc, "publisher", {"{http://www.w3.org/XML/1998/namespace}lang": "fr"})
   publisher sDc fr.text = " "
   publisher sDc en = ET.SubElement(publicationStmt sDc, "publisher", {"{http://www.w3.org/XML/1998/namespace}lang": "en"})
    publisher sDc en.text = " "
   pubPlace sDc = ET.SubElement(publicationStmt sDc, "pubPlace")
   location sDc = ET.SubElement(pubPlace sDc, "location")
   country sDc = ET.SubElement(location sDc, "country", key="FR")
   settlement sDc = ET.SubElement(location sDc, "settlement", type="city")
    settlement sDc.text = "Paris"
   # date (voir partie date-pub plus bas: la date est récupérée dans chaque fichier et est ajouté ici)
    distributor sDc = ET.SubElement(publicationStmt sDc, "distributor", facs="https://gallica.bnf.fr/ark:/12148/bpt6k477552f/f1")
   distributor sDc.text = "Source gallica.bnf.fr / Bibliothèque nationale de France"
   availability sDc = ET.SubElement(publicationStmt sDc, "availability")
   licence sDc = ET.SubElement(availability sDc, "licence", {"target": https://gallica.bnf.fr/edit/und/conditions-dutilisation-des-contenu
   licence sDc p1 = ET.SubElement(licence sDc, "p" )
   licence sDc p1.text = "Les contenus accessibles sur le site Gallica sont pour la plupart des reproductions numériques d'œuvres tombées
   licence sDc p2 = ET.SubElement(licence sDc, "p" )
   licence sDc p2.text = "Ces contenus sont considérés, en vertu du code des relations entre le public et l'administration, comme étant de
    seriesStmt = ET.SubElement(biblFull, "seriesStmt")
   title series = ET.SubElement(seriesStmt, "title" )
   title series.text = "Journal Officiel de la République française"
   biblScope1 = ET.SubElement(seriesStmt, "biblScope")
   biblScope1.text = "Débats parlementaires"
   biblScope2 = ET.SubElement(seriesStmt, "biblScope")
   biblScope2.text = "Chambre des députés"
   idno = ET.SubElement(seriesStmt, "idno" , type="ISSN")
   idno.text = "1270-5942"
# EncodingDesc
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encodingDesc = ET.SubElement(teiHeader , "encodingDesc")
# profileDesc
    profileDesc = ET.SubElement(teiHeader , "profileDesc")
   langUsage = ET.SubElement(profileDesc, "langUsage")
   language = ET.SubElement(langUsage, "language", ident="fr")
   language.text = "Français"
   global setting desc
    settingDesc = ET.SubElement(profileDesc, "settingDesc")
   setting desc = ET.SubElement(settingDesc, "setting")
   name desc1 = ET.SubElement(setting desc, "name", type="place")
   name desc1.text = "Palais Bourbon"
   name_desc2 = ET.SubElement(setting_desc, "name", type="city")
   name desc2 = "Paris"
   name_desc3 = ET.SubElement(setting_desc, "name", type="country", key ="FR")
   name desc3 = "France"
   # date desc = voir partie date plus bas
# Ajout de la description du projet------
    projectDesc = ET.SubElement(encodingDesc, "projectDesc")
    p1 = ET.SubElement(projectDesc, "p")
   p1.attrib["{http://www.w3.org/XML/1998/namespace}lang"] = "fr" # A cause des crochets et trop de "", écrire l'attibut de cette maniène
   ref1 = ET.SubElement(p1, "ref", target = "https://www.bnf.fr/fr/les-projets-de-recherche#bnf-agoda")
    ref1.text = "AGODA "
    ref1.tail = '''est un projet qui a pour objectif de rendre disponible au format XML-TEI les textes de débats parlementaires à la Chambre
   ref2 = ET.SubElement(p1, "ref", target ="https://github.com/mpuren/agoda/blob/ODD/documentation/agoda odd.xml")
    ref2.text = "ODD "
   ref2.tail = "défini pour le projet à partir des "
   ref3 = ET.SubElement(p1, "ref", target = "https://github.com/clarin-eric/parla-clarin")
   ref3.text = "recommandations produites par Parla-CLARIN."
   ref3.tail = ''' Dans une optique de preuve de concept, la phase 1 du projet AGODA se concentre plus particulièrement
   sur la 5ème législature (1889-1893). Les textes encodés sont d'abord extraits des documents numérisés disponibles sur '''
   ref4 = ET.SubElement(p1, "ref", target = "https://gallica.bnf.fr/ark:/12148/cb328020951/date.item")
    ref4.text = "Gallica,"
    ref4.tail = ''' la bibliothèque numérique de la Biliothèque nationale de France, puis ils sont convertis
   en XML-TEI au moyen de scripts Python.'''
   # Version anglaise
   p2 = ET.SubElement(projectDesc, "p")
   p2.attrib["{http://www.w3.org/XML/1998/namespace}lang"] = "en"
   ref1 2 = ET.SubElement(p2, "ref", target = "https://www.bnf.fr/fr/les-projets-de-recherche#bnf-agoda")
    ref1 2.text = "AGODA "
    ref1 2.tail = '''is a project that aims to make available in XML-TEI format the texts of parliamentary debates in the
   Chamber of Deputies during the Third Republic, following the'''
    ref2 2 = ET.SubElement(p2, "ref", target ="https://github.com/mpuren/agoda/blob/ODD/documentation/agoda odd.xml")
    ref2 2.text = "ODD "
    ref2 2 tail = " defined for the project from the "
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ref3 2 = ET.SubElement(p2, "ref", target = "https://github.com/clarin-eric/parla-clarin")
    ref3 2.text = " Parla-CLARIN recommendations "
   ref3 2.tail = ''' From a proof-of-concept perspective, phase 1 of the AGODA project focuses more specifically on the
   5th legislature (1889-1893). The encoded texts are first extracted from the digitised documents available on '''
   ref4 2 = ET.SubElement(p2, "ref", target = "https://gallica.bnf.fr/ark:/12148/cb328020951/date.item")
   ref4 2.text = "Gallica,"
   ref4 2.tail = ''' the digital library of the Biliothèque nationale de France, then they are converted into
   XML-TEI using Python scripts.'''
# fin de la description du projet-----
# fichier compilation
# Chemin absolu du dossier contenant les fichiers à parcourir
dossier json = os.path.join(os.getcwd(), "json data")
dossier xml = os.path.join(os.getcwd(), "xml data")
# Créer un pattern regex pour extraire le numéro de page du nom de fichier
page number pattern = re.compile(r'^.* p(\d+)\.json$')
# Récupérer la liste des fichiers JSON dans le dossier
fichiers = [f for f in os.listdir(dossier json) if f.endswith('.json')]
# Trier les fichiers JSON en fonction du numéro de page
fichiers json tries = sorted(fichiers, key=lambda x: int(page number pattern.match(x).group(1)))
#qlobal div sitting, div, body, ids
ids = {"Partie ": 0, "n": 0, "s": 0, "note": 0}
# Création de l'élément racine et le squelette du XML
root = ET.Element("TEI", xmlns="http://www.tei-c.org/ns/1.0")
root.attrib["{http://www.w3.org/XML/1998/namespace}lang"] = "fr"
teiHeader = ET.SubElement(root, "teiHeader")
text tei = ET.SubElement(root, "text")
body = ET.SubElement(text tei, "body")
back = ET.SubElement(text_tei, "back")
div sitting = ET.SubElement(body, "div", attrib={"type": "sitting"})
u element = ET.Element("u")
# initialisation nécessaire pour quelques variables : Cette initialisation permet d'éviter
# des erreurs de type : "Variable is not defined"
divs cibles = []
note_beg = None
added segs = set()
current parent = div sitting
quote - None
```

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note voterlist = None
comment note = None
comment_beg_note = None
seg beg = None
u beg seg beg = None
quote_seg_beg = None
quote beg seg beg = None
signed = None
note beg seg = None
# Parcourir les fichiers JSON triés
for index, fichier json in enumerate(fichiers json tries) :
    fichier json = os.path.join(dossier json, fichier json)
    filename = os.path.basename(fichier json)
    page_number = filename.split("_p0")[1].split(".")[0]
    xml id = os.path.splitext(filename)[0]
    root.attrib["{http://www.w3.org/XML/1998/namespace}id"] = xml id
   with open(fichier_json, "r", encoding="utf-8") as f:
        # Lire le contenu du fichier JSON
        data = json.load(f)
        bp_element = ET.Element("pb", attrib={"n": "{}".format(page_number)})
        # bp element permet de réccupérer le numéro de page et de l'afficher sous forme <pb n="xxx"/>
        bp element.addprevious(write comment(filename)) # ajoute un commentaire avant le <pb n="xxx"/>
        if index == 0 : # si premier fichier , alors applique la fonction de création du teiHeader
            create teiheader()
        for i in range(len(data)):
           if "comment" in data[i]:
                # Grandes divisions
               if data[i]['comment'] == 'part head' or data[i]['comment'] == "head part" :
                   # Ajouter un élément 'part head' avec le contenu de la clé 'text_ocr'
                    div part = ET.SubElement(div sitting, "div", attrib={"type": "part", "corresp": "#pv"})
                    part head = ET.SubElement(div part, "head" )
                    part_head.text = data[i]['text_ocr']
                    div part.addprevious(etree.Comment(generate id("Partie "))) # ajout de commentaire avant chaque partie suivi d'un id
                    divs cibles.append(div part)
                elif re.search(r"part1(?!-)", data[i]["comment"]):
                    div_part1 = ET.SubElement(div_sitting, "div", attrib={"type": "part"})
                    div nant1 addnovious(otnos Commont(ganonato id("div nant")))
```

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div_par ci.adupi evious(eci ee.commenc(generace_id( div_par c )))
    divs cibles.append(div part1)
elif re.search(r"agenda", data[i]["comment"]):
        # Ajouter un élément 'agenda' avec le contenu de la clé 'text ocr'
    div agenda = ET.SubElement(div sitting, "div", type="agenda")
    div agenda.addprevious(etree.Comment("Partie Agenda"))
    divs cibles.append(div agenda)
    agenda head = ET.SubElement(div agenda, "head")
    agenda head.text = data[i]['text ocr']
elif re.search(r"\b(?<!-)appendices\b", data[i]["comment"]):</pre>
    div appendices = ET.SubElement(div_sitting, "div", attrib={"type": "appendices"})
    div appendices.addprevious(etree.Comment(generate id("Partie appendices ")))
    divs_cibles.append(div_appendices)
    head appendices = ET.SubElement(div appendices, "head")
    head appendices.text = data[i]['text ocr']
elif re.search(r"part1-appendices", data[i]["comment"]):
    div appendices1 = ET.SubElement(div sitting, "div", attrib={"type": "appendices"})
    div appendices1.addprevious(etree.Comment(generate id("Partie appendices-1 ")))
    divs_cibles.append(div_appendices1)
    head appendices1 = ET.SubElement(div appendices1, "head")
    head appendices1.text = data[i]['text ocr']
elif re.search(r"\b(?<!-)erratum\b", data[i]["comment"]) :</pre>
    # Ajouter un élément 'erratum' avec le contenu de la clé 'text ocr'
    div erratum = ET.SubElement(back, "div", attrib={"type": "erratum"})
    div_erratum.addprevious(etree.Comment(generate_id("Partie_erratum_")))
    divs_cibles.append(div_erratum)
    head annexe = ET.SubElement(div erratum, "head")
    label annexe = ET.SubElement(head annexe, "label")
    label_annexe.text = data[i]['text_ocr']
elif re.search(r"part1-erratum", data[i]["comment"]):
    # Ajouter un élément 'part1-erratum' avec le contenu de la clé 'text ocr'
    div erratum1 = ET.SubElement(back, "div", attrib={"type": "erratum"})
    div erratum1.addprevious(etree.Comment(generate id("Partie-1 erratum ")))
    divs cibles.append(div erratum1)
    head annexe1 = ET.SubElement(div erratum, "head")
    label annexe1 = ET.SubElement(head annexe, "label")
    label annexe1.text = data[i]['text ocr']
elif re.search(r"\b(?<!-)lists\b", data[i]["comment"]):</pre>
    # Ajouter un élément 'lists' avec le contenu de la clé 'text ocr'
    div_lists = ET.SubElement(back, "div", attrib={"type": "lists"})
    div list.addprevious(etree.Comment(generate id("Partie lists ")))
    head lists = ET.SubElement(div lists, "head")
    label lists = ET.SubElement(head lists, "label")
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raper_fiscs.text = data[i][ text_ocr. ]
    divs cibles.append(div lists)
elif re.search(r"part1-lists", data[i]["comment"]):
     # Ajouter un élément 'part1-lists' avec le contenu de la clé 'text ocr'
    div lists1 = ET.SubElement(back, "div", attrib={"type": "lists"})
    div list1.addprevious(etree.Comment(generate id("Partie-1 lists ")))
    divs_cibles.append(div_lists1)
    head lists1 = ET.SubElement(div lists1, "head")
    label lists1 = ET.SubElement(head lists1, "label")
    label_lists1.text = data[i]['text_ocr']
elif re.search(r"\b(?<!-)offices\b", data[i]["comment"]):</pre>
     # Ajouter un élément 'offices' avec le contenu de la clé 'text ocr'
    div offices = ET.SubElement(div sitting, "div", attrib={"type": "offices"})
    div_offices.addprevious(etree.Comment(generate_id("Partie_offices_")))
    divs cibles.append(div offices)
    head offices = ET.SubElement(div offices, "head")
    head_offices.text = data[i]['text_ocr']
elif re.search(r"part1-offices", data[i]["comment"]):
    # Ajouter un élément 'part1-offices' avec le contenu de la clé 'text ocr'
    div_offices1 = ET.SubElement(div_sitting, "div", attrib={"type": "offices"})
    div offices1.addprevious(etree.Comment(generate id("Partie-1 offices ")))
    divs cibles.append(div offices1)
    head offices1 = ET.SubElement(div offices1, "head")
    head offices1.text = data[i]['text ocr']
elif re.search(r"\b(?<!-)sitting\b", data[i]["comment"]) and re.search(r"contents", data[i]["comment"]):</pre>
    div content = ET.SubElement(div sitting, "div", attrib={"type": "contents"})
    div content.addprevious(etree.Comment("SOMMAIRE"))
    list item = ET.SubElement(div content, "list")
elif re.search(r"other-sitting", data[i]["comment"]):
    # Ajouter un élément 'other-sitting' avec le contenu de la clé 'text ocr'
    div_other_sitt = ET.SubElement(body, "div", attrib={"type": "other-sitting"})
    div other sitt.addprevious(etree.Comment(generate id("other-sitting ")))
    divs cibles.append(div other sitt)
    head = ET.SubElement(div other sitt, "head")
    head.text = data[i]['text ocr']
elif data[i]["comment"] == "voting":
    div_voting = ET.SubElement(div_sitting, "div", attrib={"type": "voting"})
    div voting.addprevious(etree.Comment("Voting"))
    head voting = ET.SubElement(div voting, "head")
    label voting = ET.SubElement(head_voting, "label")
    label voting.text = data[i]['text ocr']
    divs cibles.append(div voting)
```

```
elif re.search(r"voting1", data[i]["comment"]):
    # Ajouter un élément 'voting1' avec le contenu de la clé 'text ocr'
    div voting1 = ET.SubElement(div sitting, "div", attrib={"type": "voting1"})
    div_voting1.addprevious(etree.Comment("Partie-1_voting"))
    head_voting1 = ET.SubElement(div_voting1, "head")
    label voting1 = ET.SubElement(head voting1, "label")
    label voting1.text = data[i]['text ocr']
    divs cibles.append(div voting1)
elif re.search(r"rectification", data[i]["comment"]):
    # Ajouter un élément 'rectification' avec le contenu de la clé 'text ocr'
    div_rectification = ET.SubElement(div_sitting, "div", attrib={"type": "rectification"})
    div rectification.addprevious(etree.Comment(generate id("Rectification ")))
    head rectification = ET.SubElement(div rectification, "head")
    head rectification.text = data[i]['text ocr']
    divs cibles.append(div rectification)
elif re.search(r"\b(?<!-)petition\b", data[i]["comment"]):</pre>
     # Ajouter un élément 'petition' avec le contenu de la clé 'text ocr'
    div_petition = ET.SubElement(back, "div", attrib={"type": "petition"})
    div petition.addprevious(etree.Comment(generate id("Petition ")))
    head petition = ET.SubElement(div petition, "head")
    label petition = ET.SubElement(head petition, "label")
    label petition.text = data[i]['text ocr']
    divs cibles.append(div petition)
elif re.search(r"part1-petition", data[i]["comment"]):
    # Ajouter un élément 'part1-petition' avec le contenu de la clé 'text ocr'
    div petition1 = ET.SubElement(back, "div", attrib={"type": "petition"})
    div petition1.addprevious(etree.Comment(generate id("Partie-1 petition ")))
    divs cibles.append(div petition1)
    head petition = ET.SubElement(div petition1, "head")
    label petition1 = ET.SubElement(head petition1, "label")
    label petition1.text = data[i]['text ocr']
elif data[i]['comment'] == "meeting-session meeting-legislature useless":
    # Ajouter un élément 'meeting-session meeting-legislature' avec le contenu de la clé 'text ocr'
    meet session = data[i]['text ocr']
   try:
        # extrait le numéro de session
        num session = int(meet session.split(' ')[-1][:-4])
        num legis = int(meet_session.split(' ')[0][:-1])
        # extrait le texte de la session
        texte session = "Session " + meet session.split('Session')[1] # ajoute le mot "Session"
        # extrait la première lettre du mot suivant "Session"
        lettre_session = texte_session.split('Session ')[1][0].upper()
```

```
# créer la balise
       meeting_session = ET.SubElement(titleStmt, "meeting", n=f"E\{num\_session\}", ana="#parla.lower\n#parla.session") # un
        meeting session.text = f"{texte session}"
        meet legis = meet session.split('-')
        meeting legislature = ET.SubElement(titleStmt, "meeting", n=f"{num legis}
        meeting legislature.text = meet legis[0]
       meeting_session_t = ET.SubElement(titleStmt, "meeting", n=f"E{num_session}", ana="#parla.lower\n#parla.session") #
        meeting session t.text = f"{texte session}".strip(".")
        titleStmt.insert(4, meeting session t)
        meet legis = meet session.split('-')
       meeting_legislature_t = ET.SubElement(titleStmt, "meeting", n=f"{num_legis}L", ana="#parla.lower\n#parla.legislature
       meeting legislature t.text = meet legis[0].split(".")[0].replace("o", "e")
        titleStmt.insert(5, meeting legislature t)
    except ValueError as e:
        # Gérer l'exception ValueError ici
        print(f"Erreur lors de la conversion en entier : {e}")
elif data[i]['comment'] == "meeting-sitting useless" or data[i]['comment'] == "meeting-sitting":
    # Ajouter un élément 'meeting-sitting' avec le contenu de la clé 'text ocr'
    meet sit = data[i]['text_ocr'].split('-')
    num seance = meet sit[1][0:3]
    meeting_sitting = ET.SubElement(titleStmt, "meeting", n=f"{num_seance}", ana="#parla.lower\n#parla.sitting")
    meeting sitting.text = data[i]['text ocr']
    meeting sitting t = ET.SubElement(titleStmt, "meeting", n=f"{num seance}", ana="#parla.lower\n#parla.sitting")
    meeting_sitting_t.text = data[i]['text_ocr'].split("-")[1].strip(".").replace("o", "e").lower()
    titleStmt.insert(6, meeting_sitting_t)
   Commentaires et notes
elif data[i]['comment'] == 'note-head':
    # Ajouter un élément 'note-head' avec le contenu de la clé 'text ocr'
    note head = ET.Element("note")
    note_head.text = data[i]['text_ocr']
    # Ajouter les éléments <note-head> à chaque div cible
    div cible.append(note head)
elif re.search(r"voterslist-beginning", data[i]["comment"]):
    note voterlist = ET.Element("note", attrib={"type": "voterslist"})
    voterlist = ET.SubElement(note voterlist, "desc")
    voterlist.text = data[i]['text ocr']
    div cible.append(note voterlist)
if data[i]['comment'] == 'comment seg' or data[i]["comment"] == "seg comment" or data[i]['comment'] == 'comment' :
```

```
# Ajouter un élément 'comment seg' avec le contenu de la clé 'text ocr'
    comment note = ET.Element("note", attrib={"type": "comment"})
    comment seg = ET.SubElement(comment note, "seg")
    comment seg.text = data[i]['text ocr']
    div cible.append(comment note)
    if comment note is not None:
        comment note.tail = " "
if data[i]['comment'] == 'comment-beginning seg':
    # Ajouter un élément 'comment-beginning seg' avec le contenu de la clé 'text ocr'
    comment beg note = ET.Element("note", attrib={"type": "comment"})
    comment beginning seg = ET.SubElement(comment beg note, "seg")
    comment_beginning_seg.text = data[i]['text_ocr']
    div cible.append(comment beg note)
if data[i]['comment'] == 'comment-end seg':
    # Ajouter un élément 'comment-end seq' avec le contenu de la clé 'text ocr'
    comment end seg = ET.Element("seg")
    comment end seg.text = data[i]['text ocr']
    comment beg note.append(comment end seg)
    if comment note is not None:
        comment note.tail = " "
    #comment_note = ET.Element("note", attrib={"type": "comment"})
if data[i]['comment'] == 'note seg' or data[i]['comment'] == 'note-seg':
    # Ajouter un élément 'note seq' avec le contenu de la clé 'text ocr'
    note seg = ET.Element("seg")
    note_seg.text = data[i]['text_ocr']
    comment note.append(note seg)
    div cible.append(comment note)
if data[i]['comment'] == 'result':
    # Ajouter un élément 'result' avec le contenu de la clé 'text ocr'
    note result = ET.Element("note", attrib={"type": "result"})
    note_result.text = data[i]['text_ocr']
    div cible.append(note result)
if re.search(r"note-beginning", data[i]["comment"]):
    global note beg
    note beg = ET.SubElement(div cible, "note", attrib={"type": "numbersannounced"})
    global note beg seg
    note beg seg = ET.SubElement(note beg, "seg")
    note beg seg.text = data[i]['text ocr']
if re.search(r"note-end", data[i]["comment"]) and "div-end" not in data[i]["comment"] :
    note end seg = ET.Element("seg")
    note end seg.text = data[i]['text ocr']
    if note beg seg is None:
```

```
pass
    else :
        note_beg_seg.append(note_end_seg)
if data[i]['comment'] == 'signed seg back':
    # Ajouter un élément 'signed seg back' avec le contenu de la clé 'text ocr'
    signed = ET.Element("signed")
    signed seg back = ET.SubElement(signed, "seg")
    signed_seg_back.text = data[i]['text_ocr']
    div_cible.append(signed)
if "seg note-end div-end" in data[i]['comment']:
    note_end_div_end = ET.Element("seg")
    note_end_div_end.text = data[i]['text_ocr']
    note voterlist.append(note end div end)
                   Items
elif re.search(r"\bitem(?!-)\b", data[i]["comment"]):
    item = ET.SubElement(list_item, "item")
    item.text = data[i]["text_ocr"]
elif re.search(r"item-list", data[i]["comment"]):
    item = ET.SubElement(list_item, "item")
    item.text = data[i]["text ocr"]
                   ajout des Utterances, des seg et tables
if data[i]["comment"] == "u-beginning seg" :
    u beg = ET.Element("seg")
    u beg.text = data[i]['text ocr']
    u element.append(u beg)
if data[i]["comment"] == "part1 u-beginning seg" :
    u_beg = ET.Element("seg")
    u_beg.text = data[i]['text_ocr']
    u_element.append(u_beg)
    div part1.append(u element)
if data[i]["comment"] == "u-beginning seg-beginning" :
    global u_beg_seg_beg
    u_beg_seg_beg = ET.Element("seg")
    u_beg_seg_beg.text = data[i]['text_ocr']
    u element.append(u beg seg beg)
if data[i]["comment"] == "u-beginning seg-beginning incident" :
```

```
u_seg_beg_inc = ET.Element("seg")
    u seg beg inc.text = data[i]['text ocr']
    u element.append(u seg beg inc)
if data[i]["comment"] == "u-end seg-end incident" or data[i]["comment"] == "seg-end incident" :
    text ocr = data[i]["text ocr"]
    # Rechercher l'indice de la première occurrence de "(" et de ")" dans le texte
    start index = text ocr.find("(")
    end index = text ocr.find(")")
    if start_index != -1 and end_index != -1 and start_index < end_index:</pre>
        # Extraire la partie du texte entre les quillemets
        incident_text = text_ocr[start_index :end_index+1]
        # Créer un élément <incident> et y ajouter le texte extrait
        incident_tag = ET.Element("incident")
       incident desc = ET.SubElement(incident tag, "desc")
       incident desc.text = incident text
        incident tag.tail = text ocr[end index + 1:]
        # Insérer l'élément <incident> dans la bonne position en utilisant les méthodes d'insertion
        if u_beg_seg_beg is not None:
            u_beg_seg_beg.text += "" + text_ocr[:start_index]
            u_beg_seg_beg.insert(1, incident_tag)
            incident_tag.tail = text_ocr[end_index + 1:]
            u element.append(u beg seg beg)
       else :
            u_element.text = text_ocr[:start_index]
            u element.append(incident tag)
            u element.tail = text ocr[end index + 1:]
    if u element is not None:
       u element.tail = " "
    u_element = ET.Element("u")
if data[i]["comment"] == "u-beginning seg quote" :
    seg cas = ET.Element("seg")
    text ocr = data[i]["text ocr"]
    # Rechercher l'indice de la première occurrence de "«" et de "»" dans le texte
    start index = text ocr.find("«")
    end index = text ocr.find("»")
    if start_index != -1 and end_index != -1 and start_index < end_index:</pre>
        # Extraire la partie du texte entre les quillemets
```

```
quote_text = text_ocr[start_index :end_index+1]
        # Créer un élément <quote> et y ajouter le texte extrait
        quote seg = ET.SubElement(seg cas, "quote")
        quote_seg.text = quote_text
         # Insérer l'élément <quote> dans la bonne position en utilisant les méthodes d'insertion
        seg cas.text = text ocr[:start index]
        seg_cas.insert(1, quote_seg)
        quote seg.tail = text ocr[end index + 1:]
        u element.append(seg cas)
    else:
        # Aucun guillemet trouvé ou l'ordre est incorrect, utiliser le texte tel quel
        seg cas.text = text ocr
    u element.append(seg cas)
if data[i]["comment"] == "quote-beginning seg" or data[i]["comment"] == "seg quote-beginning" :
    quote_beg_seg = ET.Element("seg")
    quote beg seg.text = data[i]['text ocr']
    if quote is not None :
        quote.append(quote_beg_seg)
if "quote-beginning" in data[i]["comment"] and "seg-beginning" in data[i]["comment"] :
    quote seg beg = ET.Element("quote")
    global quote_beg_seg_beg
    quote_beg_seg_beg = ET.SubElement(quote_seg_beg,"seg")
    quote beg seg beg.text = data[i]['text ocr']
    u element.append(quote seg beg)
if "quote-end" in data[i]["comment"] and "seg-end" in data[i]["comment"] :
    if quote beg seg beg is not None:
        quote_beg_seg_beg.text += "" + "\n"+ data[i]['text_ocr']
if "u-beginning" in data[i]["comment"]:
    # Créer un nouvel élément 'u' et le définir comme parent actuel
    current_parent = u_element
elif "quote-beginning" in data[i]["comment"]:
    # Créer un nouvel élément 'quote' et le définir comme parent actuel
    quote = ET.Element("quote")
    current parent.append(quote)
    current parent = quote
elif "guote-beginning" in data[i]["comment"] and "seg-beginning" in data[i]["comment"]:
```

```
# Créer un nouvel élément 'quote' et le définir comme parent actuel
    current_parent.append(quote_seg_beg)
    current_parent = quote_seg_beg
elif "quote-end" in data[i]["comment"]:
    # Retourner à l'élément parent précédent s'il s'agit de la balise "quote"
    if current parent is quote:
        current parent = current parent.getparent()
elif "voterslist-beginning" in data[i]["comment"]:
    # Créer un nouvel élément 'voterslist' et le définir comme parent actuel
    current parent.append(note voterlist)
    current parent = note voterlist
elif data[i]['comment'] == 'comment seg' or data[i]["comment"] == "seg comment" or data[i]['comment'] == 'comment' :
    current parent.append(comment note)
    #current parent = comment note
elif "u-end" in data[i]["comment"] or "note-end" in data[i]["comment"]:
    # Retourner à l'élément parent précédent
    if current parent is not None:
        current parent = current parent.getparent()
elif 'comment-beginning' in data[i]['comment'] :
    if comment beg note is not None :
        current parent.append(comment beg note)
        current_parent = comment_beg_note
elif 'comment-end' in data[i]['comment'] :
    if current parent is not None:
        current_parent = current_parent.getparent()
if data[i]["comment"] == "seg":
    seg = ET.Element("seg")
    seg.text = data[i]['text_ocr']
    if i >= 0 and "comment" in data[i-1] and ("quote-end" in data[i-1]["comment"] or "table" in data[i-1]["comment"] or "si
        while i < len(data) - 1 and "comment" in data[i+1] and "u-end" not in data[i]["comment"]:</pre>
            if data[i]["comment"] == "seg":
                if data[i]['text ocr'] not in added segs: # Vérifier si l'élément <seq> existe déjà dans l'ensemble
                    seg = ET.Element("seg")
                    seg.text = data[i]['text_ocr']
                    u element.append(seg)
                    added segs.add(data[i]['text ocr']) # Ajouter l'élément à l'ensemble des éléments ajoutés
            i += 1
    if i >= 0 and "comment" in data[i-1] and ("seg incident" in data[i-1]["comment"] or "seg quote incident" in data[i-1]["
        while i < len(data) - 1 and "comment" in data[i+1] and "u-end" not in data[i]["comment"]:</pre>
            if data[i]["comment"] == "seg":
               if data[i]['text ocr'] not in added segs: # Vérifier si l'élément ¿segs existe déjà dans l'ensemble
```

```
seg = ET.Element("seg")
                    seg.text = data[i]['text_ocr']
                    u element.append(seg)
                    added segs.add(data[i]['text ocr']) # Ajouter L'élément à L'ensemble des éléments ajoutés
            i += 1
    if current parent is u element:
       # Ajouter les balises 'seg' à l'élément 'u'
       if u element is not None:
            u element.append(seg)
    elif current parent is quote:
        # Ajouter les balises 'seg' à l'élément 'quote'
        quote.append(seg)
       u element.append(quote)
    elif current_parent is note_voterlist:
       # Ajouter les balises 'seg' à l'élément 'voterslist'
        note voterlist.append(seg)
       div_cible.append(note_voterlist)
    elif current parent is comment note :
        comment note.append(seg)
        div_cible.append(comment_note)
    elif current parent is comment beg note:
        comment beg note.append(seg)
        div_cible.append(comment_beg_note)
    elif current parent is signed:
        # Ajouter les balises 'seg' à l'élément 'signed'
        signed.append(seg)
        div cible.append(signed)
if data[i]['comment'] == 'table':
    # Ajouter un élément 'table' avec le contenu de la clé 'text ocr'
    table = ET.Element("table")
    row = ET.SubElement(table, "row")
   cell = ET.SubElement(row, "cell")
    cell.text = data[i]['text ocr']
    if current parent is u element:
       # Ajouter les balises 'seg' à l'élément 'u'
        if u element is not None:
            u_element.append(table)
    if current parent is quote:
        # Ajouter les balises 'seg' à l'élément 'quote'
        quoto appond(table)
```

```
if current_parent is note_voterlist:
        # Ajouter les balises 'seg' à l'élément 'voterslist'
        note voterlist.append(table)
if data[i]["comment"] == "seg-beginning" :
    global seg_beg
    seg beg = ET.Element("seg")
    seg beg.text = data[i]['text ocr']
    if current_parent is u_element:
       # Ajouter les balises 'seg' à l'élément 'u'
       if u_element is not None and seg_beg is not None:
            u_element.append(seg_beg)
    if current parent is quote:
        # Ajouter les balises 'seg' à l'élément 'quote'
        quote.append(seg_beg)
    if current parent is note voterlist:
       # Ajouter les balises 'seg' à l'élément 'voterslist'
        note_voterlist.append(seg_beg)
if data[i]["comment"] == "seg-end" :
    if seg_beg is not None :
        seg_beg.text += " " + data[i]['text_ocr']
if data[i]['comment'] == 'desc':
    # Ajouter un élément 'desc' avec le contenu de la clé 'text_ocr'
    voterlist desc = ET.SubElement(note voterlist, "desc")
    voterlist_desc.text = data[i]['text_ocr']
         Fin seg
if data[i]["comment"]== "seg-end quote-end" :
       if quote_beg_seg is not None :
            quote beg seg.text += " " + data[i]['text ocr']
if data[i]["comment"] == "u seg" :
    u_seg = ET.Element("seg")
    u seg.text = data[i]['text ocr']
    u element.append(u seg)
    if u_element is not None:
       u element.tail = " "
    u element = ET.Element("u")
```

quote append (table)

```
if data[i]["comment"] == "u seg quote" or data[i]["comment"] == "u-end seg quote" or data[i]["comment"] == "seg quote":
    u seg quote = ET.Element("seg")
    text_ocr = data[i]["text_ocr"]
    # Rechercher l'indice de la première occurrence de "«" et de "»" dans le texte
    start index = text ocr.find("«")
    end index = text ocr.find("»")
    if start_index != -1 and end_index != -1 and start_index < end_index:</pre>
        # Extraire la partie du texte entre les quillemets
        quote_text = text_ocr[start_index :end_index+1]
        # Créer un élément <quote> et y ajouter le texte extrait
        quote seg = ET.SubElement(u seg quote, "quote")
        quote_seg.text = quote_text
        # Insérer l'élément <quote> dans la bonne position en utilisant les méthodes d'insertion
        u seg quote.text = text ocr[:start index]
        u_seg_quote.insert(1, quote_seg)
        quote_seg.tail = text_ocr[end_index + 1:]
        u_element.append(u_seg_quote)
    else:
    # Aucun quillemet trouvé ou l'ordre est incorrect, utiliser le texte tel quel
        u_seg_quote.text = text_ocr
        u element.append(u seg quote)
    if u element is not None:
       u element.tail = " "
    u element = ET.Element("u")
if data[i]["comment"] == "u seg incident" :
    text_ocr = data[i]["text_ocr"]
    # Rechercher l'indice de la première occurrence de "(" et de ")" dans le texte
    start index = text ocr.find("(")
    end_index = text_ocr.find(")")
    if start index != -1 and end index != -1 and start index < end index:
        # Extraire la partie du texte entre les quillemets
       incident_text = text_ocr[start_index :end_index+1]
        # Créer un élément <incident> et y ajouter le texte extrait
        u seg inc = ET.Element("seg")
        incident_tag = ET.SubElement(u_seg_inc, "incident")
        incident_desc = ET.SubElement(incident_tag, "desc")
```

```
inclaent desc.text = inclaent text
         # Insérer l'élément <incident> dans la bonne position en utilisant les méthodes d'insertion
        u seg inc.text = text ocr[:start index]
        u seg inc.insert(1, incident tag)
        incident_tag.tail = text_ocr[end_index + 1:]
        u_element.append(u_seg_inc)
    else :
        u seg inc = ET.Element("seg")
        incident tag = ET.SubElement(u seg inc, "incident")
        incident_desc = ET.SubElement(incident_tag, "desc")
        incident desc.text = data[i]['text ocr']
        u element.append(u seg inc)
    if u element is not None:
        u element.tail = " "
    u element = ET.Element("u")
if data[i]["comment"] == "u-beginning seg incident" :
    text ocr = data[i]["text ocr"]
    # Rechercher L'indice de la première occurrence de "(" et de ")" dans le texte
    start index = text ocr.find("(")
    end_index = text_ocr.find(")")
    if start index != -1 and end index != -1 and start index < end index:
        # Extraire la partie du texte entre les quillemets
        incident_text = text_ocr[start_index :end_index+1]
        # Créer un élément <incident> et y ajouter le texte extrait
        u seg inc = ET.Element("seg")
        incident_tag = ET.SubElement(u_seg_inc, "incident")
        incident_desc = ET.SubElement(incident_tag, "desc")
        incident desc.text = incident text
         # Insérer l'élément <incident> dans la bonne position en utilisant les méthodes d'insertion
        u_seg_inc.text = text_ocr[:start_index]
        u seg inc.insert(1, incident tag)
        incident_tag.tail = text_ocr[end_index + 1:]
        u_element.append(u_seg_inc)
    else :
        u seg inc = ET.Element("seg")
        incident_tag = ET.SubElement(u_seg_inc, "incident")
        incident desc = ET.SubElement(incident tag, "desc")
        incident desc.text = data[i]['text ocr']
        u_element.append(u_seg_inc)
```

```
if data[i]["comment"] == "seg incident" :
    text_ocr = data[i]["text_ocr"]
    # Rechercher l'indice de la première occurrence de "(" et de ")" dans le texte
    start index = text ocr.find("(")
    end index = text ocr.find(")")
    if start index != -1 and end index != -1 and start index < end index:
        # Extraire la partie du texte entre les quillemets
        incident_text = text_ocr[start_index :end_index+1]
        # Créer un élément <incident> et y ajouter le texte extrait
        seg inci = ET.Element("seg")
        incident_tag = ET.SubElement(seg_inci, "incident")
        incident_desc = ET.SubElement(incident_tag, "desc")
       incident desc.text = incident text
        # Insérer l'élément <incident> dans la bonne position en utilisant les méthodes d'insertion
        seg_inci.text = text_ocr[:start_index]
        seg inci.insert(1, incident tag)
        incident tag.tail = text ocr[end index + 1:]
        u_element.append(seg_inci)
if data[i]["comment"] == "u-end seg-end" or data[i]["comment"] == "seg-end u-end" :
    u_beg_seg_beg.text += "" + data[i]['text_ocr']
    u_element.append(u_beg_seg_beg)
    if u element is not None:
       u_element.tail = " "
    u_element = ET.Element("u")
if data[i]["comment"] == "u-end seg incident" or data[i]["comment"] == "seg incident u-end":
    u end seg inc = ET.Element("seg")
   text ocr = data[i]["text ocr"]
    # Rechercher l'indice de la première occurrence de "(" et de ")" dans le texte
    start index = text ocr.find("(")
    end_index = text_ocr.find(")")
    if start index != -1 and end index != -1 and start index < end index:
       # Extraire la partie du texte entre parentèses
       incident text = text ocr[start index :end index+1]
        # Créer un élément <incident> et y ajouter le texte extrait
```

```
incident tag = ET.Element("incident")
        incident desc = ET.SubElement(incident tag, "desc")
        incident_desc.text = incident_text
        # Insérer l'élément <incident> dans la bonne position en utilisant les méthodes d'insertion
        u_end_seg_inc.text = text_ocr[:start_index]
        u end seg inc.insert(1, incident tag)
        incident tag.tail = text ocr[end index + 1:]
        u_element.append(u_end_seg_inc)
        if u element is not None:
            u element.tail = " "
       u element = ET.Element("u")
if data[i]["comment"] == "seg quote incident":
    seg_quote = ET.Element("seg")
   text_ocr = data[i]["text_ocr"]
    # Rechercher l'indice de la première occurrence de "«" et de "»" dans le texte
    start_index = text_ocr.find("«")
    end_index = text_ocr.find("»")
    start_index1 = text_ocr.find("(")
    end_index1 = text_ocr.find(")")
    if start index != -1 and end index != -1 and start index < end index:
        # Extraire la partie du texte entre les guillemets
        quote_text = text_ocr[start_index:end_index+1]
        incident text = text ocr[start index1:end index1+1]
        # Créer un élément <quote> et y ajouter le texte extrait
        quote seg = ET.Element("quote")
        quote_seg.text = quote_text
       quote_incident = ET.Element("incident")
        quote incident desc = ET.SubElement(quote incident, "desc")
        quote_incident_desc.text = incident_text
        # Insérer l'élément <quote> dans la bonne position en utilisant les méthodes d'insertion
        seg quote.text = text ocr[:start index1]
        seg_quote.append(quote_seg)
        seg quote.append(quote incident)
        quote incident.tail = text ocr[end index1 + 1:]
    u_element.append(seg_quote)
if data[i]["comment"] == "seg-end quote" :
```

```
seg_end_quote = ET.Element("seg")
    seg end quote.text = data[i]['text ocr']
    text_ocr = data[i]["text_ocr"]
    # Rechercher l'indice de la première occurrence de "«" et de "»" dans le texte
    start index = text ocr.find("«")
    end index = text ocr.find("»")
    if start_index != -1 and end_index != -1 and start_index < end_index:</pre>
       # Extraire la partie du texte entre les quillemets
        quote text = text ocr[start index :end index+1]
        # Créer un élément <quote> et y ajouter le texte extrait
        quote end seg = ET.SubElement(seg end quote, "quote")
        quote end seg.text = quote text
        # Insérer l'élément <quote> dans la bonne position en utilisant les méthodes d'insertion
        seg end quote.text = text ocr[:start index]
        seg_end_quote.insert(1, quote_seg)
        quote end seg.tail = text ocr[end index + 1:]
    if seg beg is not None :
        seg beg.text += "" + seg end quote.text
        #u element.append(seg beg)
if data[i]["comment"] == "quote-end seg" :
    quote end seg = ET.Element("seg")
   quote_end_seg.text = data[i]['text_ocr']
    if quote is not None :
        quote.append(quote end seg)
if data[i]["comment"] == "opening seg" :
    # Ajouter un élément 'opening seg' avec le contenu de la clé 'text_ocr'
    opening note = ET.Element("note", { "{http://www.w3.org/XML/1998/namespace}id": "CR " + filename.split(" ")[3] + " " +
    opening seg = ET.SubElement(opening note, "seg", { "{http://www.w3.org/XML/1998/namespace}id": generate id("s")})
    opening seg.text = data[i]['text ocr']
    div cible.append(opening note)
elif data[i]['comment'] == 'closing seg':
    # Ajouter un élément 'closing seg' avec le contenu de la clé 'text ocr'
    note closing = ET.Element("note", {"type": "closing", "{http://www.w3.org/XML/1998/namespace}id": generate id("note")})
    closing seg = ET.SubElement(note closing, "seg")
    closing_seg.text = data[i]['text_ocr']
    div cible.append(note closing)
if 'page-number' in data[i]['comment']:
    if current parent is u element:
```

```
# Ajouter les balises 'seg' à l'élément 'u'
                        u_element.append(bp_element)
                    elif current parent is quote:
                        # Ajouter les balises 'seg' à l'élément 'quote'
                        quote.append(bp_element)
                    elif current_parent is quote_seg_beg:
                        # Ajouter les balises 'seg' à l'élément 'quote'
                        quote_seg_beg.append(bp_element)
                    elif current_parent is note_voterlist:
                        # Ajouter les balises 'seg' à l'élément 'voterslist'
                        note_voterlist.append(bp_element)
                    elif current parent is comment note :
                        comment_note.append(bp_element)
                    elif current_parent is comment_beg_note:
                        comment_beg_note.append(bp_element)
                    else :
                        for div_cible in divs_cibles:
                            div cible.append(bp element)
                for div_cible in divs_cibles:
                    if div cible is not None:
                        div cible.append(u element)
                    if comment_note is not None :
                        div_cible.append(comment_note)
xml_tree = ET.ElementTree(root)
final output = filename.split(" p0")[0] + " compiled" + ".xml"
xml filename = os.path.join(dossier xml, final output )
with open(os.path.join(dossier_xml, xml_filename), "wb") as xml_file:
    root = xml tree.getroot()
    instruction1 = ' href="agoda_schema.rng" type="application/xml" schematypens="http://purl.oclc.org/dsdl/schematron"'
    model instr1 = ET.ProcessingInstruction("xml-model", instruction1)
```

```
root.addprevious(model instr1)
    instruction2 = ' href="agoda_schema.rng" type="application/xml" schematypens="http://relaxng.org/ns/structure/1.0"'
    model instr2 = ET.ProcessingInstruction("xml-model", instruction2)
    root.addprevious(model instr2)
    xml tree.write(xml file, encoding="utf-8", xml declaration=True, pretty print=True)
                    Fin du script en haut Nettoyage, ci-dessous
# suppressions des tirets suivis de retours à la ligne
# Chemin d'accès au dossier contenant les fichiers XML
dossier_xml = os.path.join(os.getcwd(), "xml_data")
# Parcourir les fichiers XML dans le dossier
for nom fichier in os.listdir(dossier xml):
   if nom_fichier.endswith(".xml"):
        chemin fichier = os.path.join(dossier xml, nom fichier)
        # Lire le contenu du fichier XML
        with open(chemin_fichier, "r") as fichier:
            contenu = fichier.read()
        # Supprimer les tirets suivis de retours à la ligne entre deux mots
        contenu_modifie = re.sub(r"(\w)-\n(\w)", r"\1\2", contenu)
       contenu_modifie = re.sub("-\n", "", contenu_modifie)
        contenu_modifie = re.sub(r"-\s", "", contenu_modifie)
        # Écrire le contenu modifié dans le fichier
        with open(chemin fichier, "w") as fichier modifie:
           fichier_modifie.write(contenu_modifie)
       #print(f"Le fichier '{nom fichier}' a été modifié.")
```

```
In []:
In []:
```