

```
In [1]: from bs4 import BeautifulSoup
import requests
```

1) Write a python program to display all the header tags from wikipedia.org.

```
In [2]: page = requests.get('https://en.wikipedia.org/wiki/Main_Page')
page
```

```
Out[2]: <Response [200]>
```

```
In [3]: soup = BeautifulSoup(page.content)
soup
```

```
Out[3]: <!DOCTYPE html>
<html class="client-nojs" dir="ltr" lang="en">
<head>
<meta charset="utf-8"/>
<title>Wikipedia, the free encyclopedia</title>
<script>document.documentElement.className="client-js";RLCONF={"wgBreakFrames":false,"wgSeparatorTransformTable":
["",""],"wgDigitTransformTable":["",""],"wgDefaultDateFormat":"dmy","wgMonthNames":["","January","February","Marc
h","April","May","June","July","August","September","October","November","December"],"wgRequestId":"947a8155-f7cf
-4300-86f8-dfe6a05a9478","wgCSPNonce":false,"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":false,"wgNames
paceNumber":0,"wgPageName":"Main_Page","wgTitle":"Main_Page","wgCurRevisionId":1108085777,"wgRevisionId":11080857
77,"wgArticleId":15580374,"wgIsArticle":true,"wgIsRedirect":false,"wgAction":"view","wgUserName":null,"wgUserGrou
ps":["*"],"wgCategories":["Articles containing Italian-language text"],"wgPageContentLanguage":"en","wgPageConten
tModel":"wikitext","wgRelevantPageName":"Main_Page","wgRelevantArticleId":15580374,"wgIsProbablyEditable":false,"
wgRelevantPageIsProbablyEditable":false,"wgRestrictionEdit":["sysop"],"wgRestrictionMove":["sysop"],
"wgIsMainPage":true,"wgFlaggedRevsParams":{"tags":{"status":{"levels":1}}},"wgVisualEditor":{"pageLanguageCode":"
en","pageLanguageDir":"ltr","pageVariantFallobacks":"en"},"wgMFDisplayWikibaseDescriptions":{"search":true,"nearby
":true,"watchlist":true,"tagline":false},"wgWMEschemaEditAttemptStep0versample":false,"wgWMEPageLength":3000,"wgN
oticeProject":"wikipedia","wgVector2022PreviewPages":[],"wgMediaViewerOnClick":true,"wgMediaViewerEnabledByDefaul
t":true,"wgPopupsFlags":10,"wgULSCurrentAutonym":"English","wgEditSubmitButtonLabelPublish":true,"wgCentralAuthMo
bileDomain":false,"wgULSPosition":"interlanguage","wgULSisCompactLinksEnabled":true,"wgWikibaseItemId":"Q5296","G
EHomepageSuggestedEditsEnableTopics":true,"wgGETopicsMatchModeEnabled":false,"wgGESTstructuredTaskRejectionReasonTe
xtInputEnabled":false};RLSTATE={"ext.globalCssJs.user.styles":"ready","site.styles":"ready","user.styles":"ready"
,"ext.globalCssJs.user":"ready","user":"ready","user.options":"loading",
"skins.vector.styles.legacy":"ready","ext.visualEditor.desktopArticleTarget.noscript":"ready","ext.wikimediaBadg
es":"ready","ext.uls.interlanguage":"ready";RLPAGEMODULES=["site","mediawiki.page.ready","skins.vector.legacy.js"
,"mmv.head","mmv.bootstrap.autostart","ext.visualEditor.desktopArticleTarget.init","ext.visualEditor.targetLoader
","ext.eventLogging","ext.wikimediaEvents","ext.navigationTiming","ext.cx.eventlogging.campaigns","ext.centralNot
ice.geoIP","ext.centralNotice.startUp","ext.gadget.ReferenceTooltips","ext.gadget.charinsert","ext.gadget.extra-t
oolbar-buttons","ext.gadget.switcher","ext.centralauth.centralautologin","ext.popups","ext.uls.interface","ext.gr
owthExperiments.SuggestedEditSession"];</script>
<script>(RLQ=window.RLQ||[]).push(function(){mw.loader.implement("user.options@12s5i",function($,jQuery,require,m
odule){mw.user.tokens.set({"patrolToken":"+\\","watchToken":"+\\","csrfToken":"+\\"});});});</script>
<link href="/w/load.php?lang=en&modules=ext.uls.interlanguage%7Cext.visualEditor.desktopArticleTarget.noscrip
t%7Cext.wikimediaBadges%7Cskins.vector.styles.legacy&only=styles&skin=vector" rel="stylesheet"/>
<script async="" src="/w/load.php?lang=en&modules=startup&only=scripts&raw=1&skin=vector"></scrip
t>
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<link href="/w/load.php?lang=en&modules=site.styles&only=styles&skin=vector" rel="stylesheet"/>
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<meta content="origin" name="referrer"/>
<meta content="origin-when-crossorigin" name="referrer"/>
<meta content="origin-when-cross-origin" name="referrer"/>
<meta content="telephone=no" name="format-detection"/>
<meta content="https://upload.wikimedia.org/wikipedia/commons/thumb/d/d8/Monza_first_lineup%2C_1912_%28cropped%29
.jpg/1200px-Monza_first_lineup%2C_1912_%28cropped%29.jpg" property="og:image"/>
<meta content="1200" property="og:image:width"/>
<meta content="928" property="og:image:height"/>
<meta content="https://upload.wikimedia.org/wikipedia/commons/thumb/d/d8/Monza_first_lineup%2C_1912_%28cropped%29
.jpg/800px-Monza_first_lineup%2C_1912_%28cropped%29.jpg" property="og:image"/>
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<meta content="619" property="og:image:height"/>
<meta content="https://upload.wikimedia.org/wikipedia/commons/thumb/d/d8/Monza_first_lineup%2C_1912_%28cropped%29
.jpg/640px-Monza_first_lineup%2C_1912_%28cropped%29.jpg" property="og:image"/>
<meta content="640" property="og:image:width"/>
<meta content="495" property="og:image:height"/>
<meta content="width=1000" name="viewport"/>
<meta content="Wikipedia, the free encyclopedia" property="og:title"/>
<meta content="website" property="og:type"/>
<link href="//upload.wikimedia.org" rel="preconnect"/>
<link href="//en.m.wikipedia.org/wiki/Main_Page" media="only screen and (max-width: 720px)" rel="alternate"/>
<link href="/w/api.php?action=featuredfeed&feed=potd&feedformat=atom" rel="alternate" title="Wikipedia pi
cture of the day feed" type="application/atom+xml"/>
<link href="/w/api.php?action=featuredfeed&feed=featured&feedformat=atom" rel="alternate" title="Wikipedi
a featured articles feed" type="application/atom+xml"/>
<link href="/w/api.php?action=featuredfeed&feed=onthisday&feedformat=atom" rel="alternate" title='Wikiped
ia "On this day..." feed' type="application/atom+xml"/>
<link href="/static/apple-touch/wikipedia.png" rel="apple-touch-icon"/>
<link href="/static/favicon/wikipedia.ico" rel="icon"/>
```

```
<link href="/w/opensearch_desc.php" rel="search" title="Wikipedia (en)" type="application/opensearchdescription+xml"/>
<link href="//en.wikipedia.org/w/api.php?action=rsd" rel="EditURI" type="application/rsd+xml"/>
<link href="https://creativecommons.org/licenses/by-sa/3.0/" rel="license"/>
<link href="https://en.wikipedia.org/wiki/Main_Page" rel="canonical"/>
<link href="//meta.wikimedia.org" rel="dns-prefetch"/>
<link href="//login.wikimedia.org" rel="dns-prefetch"/>
</head>
<body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-subject page-Main_Page rootpage-Main_Page skin-vector action-view skin-vector-legacy vector-toc-not-collapsed vector-feature-language-in-header-enabled vector-feature-language-in-main-page-header-disabled vector-feature-language-alert-in-sidebar-enabled vector-feature-sticky-header-disabled vector-feature-sticky-header-edit-disabled vector-feature-table-of-contents-disabled vector-feature-visual-enhancement-next-disabled"><div class="noprint" id="mw-page-base"></div>
<div class="noprint" id="mw-head-base"></div>
<div class="mw-body" id="content" role="main">
<a id="top"></a>
<div id="siteNotice"><!-- CentralNotice --></div>
<div class="mw-indicators">
</div>
<h1 class="firstHeading mw-first-heading" id="firstHeading" style="display: none"><span class="mw-page-title-main">Main Page</span></h1>
<div class="vector-body" id="bodyContent">
<div class="noprint" id="siteSub">From Wikipedia, the free encyclopedia</div>
<div id="contentSub"></div>
<div id="contentSub2"></div>
<div id="jump-to-nav"></div>
<a class="mw-jump-link" href="#mw-head">Jump to navigation</a>
<a class="mw-jump-link" href="#searchInput">Jump to search</a>
<div class="mw-body-content mw-content-ltr" dir="ltr" id="mw-content-text" lang="en"><div class="mw-parser-output">
<style data-mw-deduplicate="TemplateStyles:r1094834805">.mw-parser-output .mp-box{border:1px solid #aaa;padding:0 0.5em 0.5em;margin-top:4px}.mw-parser-output .mp-h2,body.skin-timeless .mw-parser-output .mp-h2{border:1px solid #aaa;margin:0.5em 0;padding:0.2em 0.4em;font-size:120%;font-weight:bold;font-family:inherit}.mw-parser-output .mp-h2:after{border:none}.mw-parser-output .mp-later{font-size:85%;font-weight:normal}.mw-parser-output #mp-topbanner{background:#f9f9f9;border-color:#ddd}.mw-parser-output #mp-welcomecount{text-align:center;margin:0.4em}.mw-parser-output #mp-welcome{font-size:162%;padding:0.1em}.mw-parser-output #mp-welcome h1{font-size:inherit;font-family:inherit;display:inline;border:none}.mw-parser-output #mp-welcome h1:after{content:none}.mw-parser-output #mp-free{font-size:95%}.mw-parser-output #articlecount{font-size:85%}.mw-parser-output .mp-contains-float:after{content:"";display:block;clear:both}.mw-parser-output #mp-banner{background:#fffa5;border-color:#f2e0ce}.mw-parser-output #mp-left{background:#fffafa;border-color:#cef2e0}.mw-parser-output #mp-left .mp-h2{background:#cef2e0;border-color:#a3bfb1}.mw-parser-output #mp-right{background:#f5fa5;border-color:#cedff2}.mw-parser-output #mp-right .mp-h2{background:#cedff2;border-color:#a3b0bf}.mw-parser-output #mp-middle{background:#fff5fa;border-color:#f2cedd}.mw-parser-output #mp-middle .mp-h2{background:#f2cedd;border-color:#bfa3af}.mw-parser-output #mp-lower{background:#faf5ff;border-color:#ddcef2}.mw-parser-output #mp-lower .mp-h2{background:#ddcef2;border-color:#afa3bf}.mw-parser-output #mp-bottom{border-color:#e2e2e2}.mw-parser-output #mp-bottom .mp-h2{background:#eee;border-color:#ddd}@media(max-width:875px){.mw-parser-output #mp-tfp table,.mw-parser-output #mp-tfp tr,.mw-parser-output #mp-tfp td,.mw-parser-output #mp-tfp tbody{display:block!important;width:100%!important;box-sizing:border-box}.mw-parser-output #mp-tfp tr:first-child td:first-child a{text-align:center;display:table;margin:0 auto}}@media(min-width:875px){.mw-parser-output #mp-upper{display:flex}.mw-parser-output #mp-left{flex:1 1 55%;margin-right:2px}.mw-parser-output #mp-right{flex:1 1 45%;margin-left:2px}}.mw-parser-output div.hlist.inline ul,.mw-parser-output div.hlist.inline li,.mw-parser-output div.hlist.inline{display:inline}</style>
<div class="mp-box" id="mp-topbanner">
<div id="mp-welcomecount">
<div id="mp-welcome"><h1><span class="mw-headline" id="Welcome_to_Wikipedia">Welcome to <a href="/wiki/Wikipedia" title="Wikipedia">Wikipedia</a></span></h1></div>
<div id="mp-free">the <a href="/wiki/Free_content" title="Free content">free</a> <a href="/wiki/Encyclopedia" title="Encyclopedia">encyclopedia</a> that <a href="/wiki/Help:Introduction_to_Wikipedia" title="Help:Introduction to Wikipedia">anyone can edit</a>.</div>
<div id="articlecount"><a href="/wiki/Special:Statistics" title="Special:Statistics">6,552,966</a> articles in <a href="/wiki/English_language" title="English language">English</a></div>
</div>
</div>
<div id="mp-upper">
<div class="MainPageBG mp-box" id="mp-left">
<h2 class="mp-h2" id="mp-tfa-h2"><span id="From_today.27s_featured_article"></span><span class="mw-headline" id="From_today's_featured_article">From today's featured article</span></h2>
<div class="mp-contains-float" id="mp-tfa"><div id="mp-tfa-img" style="float: left; margin: 0.5em 0.9em 0.4em 0em;">
<div class="thumbinner mp-thumb" style="background: transparent; border: none; padding: 0; max-width: 159px;">
<a class="image" href="/wiki/File:Monza_first_lineup_1912_(cropped).jpg" title="Monza's first lineup, 1912"></a><div class="thumbcaption" style="padding: 0.25em 0; word-wrap: break-word;">Monza's first lineup, 1912</div></div>
<p><b><a href="/wiki/A.C. Monza" title="A.C. Monza">A.C. Monza</a></b> is a professional <a href="/wiki/Association_football" title="Association football">football</a> club that is based in <a href="/wiki/Monza" title="Monza">Monza</a>, <a href="/wiki/Lombardy" title="Lombardy">Lombardy</a>, Italy. The team plays in the <a href="/wiki/Serie_A" title="Serie A">Serie A</a>, the first tier of <a href="/wiki/Italian_football_league_system" title="Italian football league system">Italian football</a>, following promotion in the <a href="/wiki/2021%E2%80%9322_Serie_B" title="2021–22 Serie B">2021–22 Serie B</a> season. The club was founded in 1912 <i>(first lineup pictured)</i>, with its first recorded win on 20 September 1912. On multiple occasions in the 1970s, the club came close to promotion to the Serie A, but were twice declared bankrupt, in 2004 and 2015. Following <a href="/wiki/Silvio_Berlusconi" title="Silvio Berlusconi">Silvio Berlusconi</a>'s 2018 takeover of the club, Monza was promoted to the <a href="/wiki/Serie_B" title="Serie B">Serie B</a> in 2020 after a 19-year absence; no Italian team had played more Serie B seasons (40) without playing in the Serie A. Monza have won the <a href="/wiki/Coppa Italia Serie_C" title="Coppa Italia Serie C">Coppa Italia Serie C</a> a record four times, the <a href="/wiki/Serie_C" title="Serie C
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Serie C championship four times, and an Anglo-Italian Cup. Monza's colours were initially blue and white but were changed to red and white in 1932; as a result, they are nicknamed <i lang="it">i biancorossi</i> ('the white and reds'). They have played home matches at the Stadio Brianteo since 1988. (Full article...)</p>
</div>
<div class="tfa-recent" style="text-align: right;">
 Recently featured: <div class="hlist hlist-separated inline">
 Elizabeth II
 <i>Rotavirus</i>
 NASA Astronaut Group 2
 </div></div>
<div class="hlist hlist-separated tfa-footer noprint" style="text-align:right;">
 Archive
 By email
 More featured articles
 About
</div></div>
<h2 class="mp-h2" id="mp-dyk-h2">Did you know ...</h2>
<div class="mp-contains-float" id="mp-dyk">
 <div class="dyk-img" style="float: right; margin-left: 0.5em;">
 <div class="thumbinner mp-thumb" style="background: transparent; border: none; padding: 0; max-width: 93px;">

 <div class="thumbcaption" style="padding: 0.25em 0; word-wrap: break-word;">Abbas II of Persia</div></div>
 ... that the reign of Abbas II of Persia <i>(pictured)</i> was marked by peace with neighbouring nations, except for a war with the Mughal Empire in 1649 to recover the city of Kandahar?
 ... that Green Valley State Park in Iowa, which was dedicated exactly 69 years ago, had multiple species of fish added to its artificial lake in 1974?
 ... that according to Modern Times, a San Francisco–based bookstore collective, if there was only one book that you read in 1975 it had to be Canadian author and activist Helen Potrebenko's <i>Taxi!</i>?
 ... that a Duesenberg car was the first American car to win a French Grand Prix, doing so in 1921?
 ... that besides official retreats in Hyderabad and in Shimla, the president of India also has one in Dehradun?
 ... that actress Zita Moulton first starred in theatre performances after a bet with her fiancé that she would be able to get a stage job within 24 hours?
 ... that 48 of the 55 British participants in the August 1919 raid on Kronstadt received gallantry medals or were mentioned in despatches?
 ... that Malaysian businessman Lim Kok Wing was depicted as "King of Africa"?
 <div class="hlist hlist-separated dyk-footer noprint" style="margin-top: 0.5em; text-align: right;">
 Archive
 Start a new article
 Nominate an article
 </div>
</div>
</div>
<div class="MainPageBG mp-box" id="mp-right">
 <h2 class="mp-h2" id="mp-itn-h2">In the news</h2>
 <div class="mp-contains-float" id="mp-itn"><style data-mw-deduplicate="TemplateStyles:r1053378754">.mw-parser-output .itn-img{float:right;margin-left:0.5em;margin-top:0.2em}</style><div class="itn-img" role="figure">
 <div class="thumbinner mp-thumb" style="background: transparent; border: none; padding: 0; max-width: 123px;">
 <div class="thumbcaption" style="padding: 0.25em 0; word-wrap: break-word; text-align: left;">Jean-Luc Godard</div></div>
 At least 100 people are killed in renewed fighting between Kyrgyzstan and Tajikistan.
 In the Swedish general election, the Sweden Democrats—Moderates—Christian Democrats (Sweden)—Liberals (Sweden)—
 </div>

rals bloc wins a majority of seats in the Riksdag.
French-Swiss filmmaker Jean-Luc Godard <i>(pictured)</i> dies at the age of 91.
In television, <i>Ted Lasso</i> wins best comedy and <i>Succession</i> wins best drama at the Primetime Emmy Awards.
<div class="itn-footer" style="margin-top: 0.5em;">
<div>Ongoing: <div class="hlist hlist-separated inline">
Death and state funeral of Elizabeth II
Russian invasion of Ukraine</div></div>
<div>Recent deaths: <div class="hlist hlist-separated inline">
Valeri Polyakov
Allen Aylett
John Stearns
Harry Booth
Naresh Kumar
Shelby Jordan</div></div></div>
<div class="hlist hlist-separated itn-footer noprint" style="text-align:right;">
Nominate an article
</div></div>
<h2 class="mp-h2" id="mp-otd-h2">On this day</h2>
<div class="mp-contains-float" id="mp-otd">
<p>September 20</p>
<div id="mp-otd-img" style="float:right;margin-left:0.5em;">
<div class="thumbinner mp-thumb" style="background: transparent; border: none; padding: 0; max-width: 114px;">
<div class="thumbcaption" style="padding: 0.25em 0; word-wrap: break-word;">L. Ron Hubbard</div></div>
1260 – The second of two major uprisings by the Old Prussians, a Baltic tribe, began against the Teutonic Knights.
1643 – First English Civil War: The First Battle of Newbury was fought in Berkshire; Parliamentarian forces were allowed to pass Royalist troops to retreat the next morning.
1943 – World War II: Australian troops led by Gordon Grimsley King defeated Imperial Japanese forces at the Battle of Kaiapit in New Guinea.
1967 – L. Ron Hubbard <i>(pictured)</i>, the founder of Scientology, announced the story of Xenu in a taped lecture sent to all Scientologists.
1977 – A series of celestial phenomena of disputed nature was observed in the western Soviet Union, Finland and Denmark.
<div class="hlist hlist-separated" style="margin-top: 0.5em;">Éva Gauthier (<abbr title="born">b.</abbr> 1885)Masashi Hamauzu (<abbr title="born">b.</abbr> 1971)Erich Hartmann (<abbr title="died">d.</abbr> 1993)</div>
<div style="margin-top:0.5em;">
More anniversaries: <div class="hlist hlist-separated inline nowraplinks">
September 19
September 20
September 21
</div></div>
<div class="hlist hlist-separated otd-footer noprint" style="text-align:right;">
Archive
By email
List of days of the year
</div></div>
</div>
<div class="MainPageBG mp-box" id="mp-lower">
<h2 class="mp-h2" id="mp-tfp-h2">Today's featured picture</h2>
<div id="mp-tfp">
<table role="presentation" style="margin:0 3px 3px; width:100%; box-sizing:border-box; text-align:left; background-color:transparent; border-collapse:collapse;">

```
<tbody><tr>
<td style="padding:0 0.9em 0 0; width:400px;"><a class="image" href="/wiki/File:Lunch_atop_a_Skyscraper_-_Charles_Clyde_Ebbets.jpg" title="Lunch atop a Skyscraper"></a>
</td>
<td style="padding:0 6px 0 0">
<p><i><b><a href="/wiki/Lunch_atop_a_Skyscraper" title="Lunch atop a Skyscraper">Lunch atop a Skyscraper</a></b></i> is a black-and-white photograph taken on September 20, 1932, of eleven ironworkers sitting on a steel beam 85 0 feet (260 m) above the ground on the sixty-ninth floor of the <a href="/wiki/30_Rockefeller_Plaza" title="30 Rockefeller Plaza">RCA Building</a> (30 Rockefeller Plaza), then nearing completion, at <a href="/wiki/Rockefeller_Center" title="Rockefeller Center">Rockefeller Center</a> in <a href="/wiki/Manhattan" title="Manhattan">Manhattan</a>, New York City. It was arranged as a <a href="/wiki/Publicity_stunt" title="Publicity stunt">publicity stunt</a>, part of a campaign promoting the skyscraper. The photograph was first published in October 1932, during the <a href="/wiki/Construction_of_Rockefeller_Center" title="Construction of Rockefeller Center">construction of Rockefeller Center</a>.
</p>
<p style="text-align:left;"><small>Photograph credit: unknown, possibly <a href="/wiki/Charles_Clyde_Ebbets" title="Charles Clyde Ebbets">Charles Clyde Ebbets</a></small></p>
<div class="potd-recent" style="text-align:right;">
Recently featured: <div class="hlist hlist-separated inline">
<ul><li><a href="/wiki/Template:POTD/2022-09-19" title="Template:POTD/2022-09-19">Women in World War II</a></li>
<li><a href="/wiki/Template:POTD/2022-09-18" title="Template:POTD/2022-09-18"><i>Trimeresurus popeiorum</i></a></li>
<li><a href="/wiki/Template:POTD/2022-09-17" title="Template:POTD/2022-09-17">Distinctive feature</a></li></ul>
</div></div>
<div class="hlist hlist-separated potd-footer noprint" style="text-align:right;">
<ul><li><b><a href="/wiki/Wikipedia:Picture_of_the_day/Archive" title="Wikipedia:Picture of the day/Archive">Archive</a></b></li>
<li><b><a href="/wiki/Wikipedia:Featured_pictures" title="Wikipedia:Featured pictures">More featured pictures</a></b></li></ul>
</div>
</td></tr></tbody></table></div>
</div>
<div class="mp-box" id="mp-bottom">
<h2 class="mp-h2" id="mp-other"><span class="mw-headline" id="Other_areas_of_Wikipedia">Other areas of Wikipedia</span></h2>
<div id="mp-other-content">
<ul><li><b><a href="/wiki/Wikipedia:Community_portal" title="Wikipedia:Community portal">Community portal</a></b> – The central hub for editors, with resources, links, tasks, and announcements.</li>
<li><b><a href="/wiki/Wikipedia:Village_pump" title="Wikipedia:Village pump">Village pump</a></b> – Forum for discussions about Wikipedia itself, including policies and technical issues.</li>
<li><b><a href="/wiki/Wikipedia:News" title="Wikipedia:News">Site news</a></b> – Sources of news about Wikipedia and the broader Wikimedia movement.</li>
<li><b><a href="/wiki/Wikipedia:Teahouse" title="Wikipedia:Teahouse">Teahouse</a></b> – Ask basic questions about using or editing Wikipedia.</li>
<li><b><a href="/wiki/Wikipedia:Help_desk" title="Wikipedia:Help desk">Help desk</a></b> – Ask questions about using or editing Wikipedia.</li>
<li><b><a href="/wiki/Wikipedia:Reference_desk" title="Wikipedia:Reference desk">Reference desk</a></b> – Ask research questions about encyclopedic topics.</li>
<li><b><a href="/wiki/Wikipedia:Contents/Portals" title="Wikipedia:Contents/Portals">Content portals</a></b> – A unique way to navigate the encyclopedia.</li></ul>
</div>
<h2 class="mp-h2" id="mp-sister"><span id="Wikipedia.27s_sister_projects"></span><span class="mw-headline" id="Wikipedia's_sister_projects">Wikipedia's sister projects</span></h2>
<div id="mp-sister-content"><style data-mw-deduplicate="TemplateStyles:r1007624485">.mw-parser-output #sister-projects-list{display:flex;flex-wrap:wrap}.mw-parser-output #sister-projects-list li{display:inline-block}.mw-parser-output #sister-projects-list li span{font-weight:bold}.mw-parser-output #sister-projects-list li>div{display:inline-block;vertical-align:middle;padding:6px 4px}.mw-parser-output #sister-projects-list li>div:first-child{text-align:center}@media(min-width:360px){.mw-parser-output #sister-projects-list li{width:33%;min-width:20em;white-space:nowrap;flex:1 0 25%}.mw-parser-output #sister-projects-list li>div:first-child{min-width:50px}}</style>
<p>Wikipedia is written by volunteer editors and hosted by the <a href="/wiki/Wikimedia_Foundation" title="Wikimedia Foundation">Wikimedia Foundation</a>, a non-profit organization that also hosts a range of other volunteer <a class="extiw" href="https://wikimediafoundation.org/our-work/wikimedia-projects/" title="foundationsite:our-work/wikimedia-projects/">projects</a>:
</p>
<div class="plainlist">
<ul id="sister-projects-list">
<li>
<div><a href="https://commons.wikimedia.org/wiki/" title="Commons"></a></div>
<div><span><a class="extiw" href="https://commons.wikimedia.org/wiki/" title="c:">Commons</a></span><br>Free media repository</div>
</li>
<li>
<div><a href="https://www.mediawiki.org/wiki/" title="MediaWiki"></a></div>
<div><span><a class="extiw" href="https://www.mediawiki.org/wiki/" title="mw:">MediaWiki</a></span><br>Wiki software development</div>
</li>
</ul>
</div>
```


<div></div>
<div>Meta-Wiki
Wikimedia project coordination</div>

<div></div>
<div>Wikibooks
Free textbooks and manuals</div>

<div></div>
<div>Wikidata
Free knowledge base</div>

<div></div>
<div>Wikinews
Free-content news</div>

<div></div>
<div>Wikiquote
Collection of quotations</div>

<div></div>
<div>Wikisource
Free-content library</div>

<div></div>
<div>Wikispecies
Directory of species</div>

<div></div>
<div>Wikiversity
Free learning tools</div>

<div></div>
<div>Wikivoyage
Free travel guide</div>

<div></div>

Wiktionary
Dictio
nary and thesaurus</div>

</div></div>
<h2 class="mp-h2" id="mp-lang">Wikipedia languages</h2>
<div><style data-mw-deduplicate="TemplateStyles:r997272951">.mw-parser-output .wikipedia-languages-complete{font-
weight:bold}.mw-parser-output .wikipedia-languages ul{margin-left:0}.mw-parser-output .wikipedia-languages ul a{w
hite-space:nowrap}.mw-parser-output .wikipedia-languages>ul{list-style:none;text-align:center;clear:both}.mw-pars
er-output .wikipedia-languages-count-container{width:90%;display:flex;justify-content:center;padding-top:1em;marg
in:0 auto}.mw-parser-output .wikipedia-languages-prettybars{width:100%;height:1px;margin:0.5em 0;background-color
:#c8ccd1;flex-shrink:1;align-self:center}.mw-parser-output .wikipedia-languages-count{padding:0 1em;white-space:n
owrap}</style>
<div class="wikipedia-languages nourlexansion">
<p>This Wikipedia is written in English. Many <a cl
ass="extiw" href="https://meta.wikimedia.org/wiki/List_of_Wikipedias" title="meta:List of Wikipedias">other Wikip
edias are available; some of the largest are listed below.
</p>
<ul class="plainlinks">

<div class="wikipedia-languages-count-container">
<div class="wikipedia-languages-prettybars"></div>
<div class="wikipedia-languages-count" role="heading">1,000,000+ articles</div>
<div class="wikipedia-languages-prettybars"></div>
</div>
<ul class="wikipedia-languages-langs hlist hlist-separated inline">
<span class="autonym" lang="ar" title="Arabic
(ar:)">العربية
<span class="autonym" lang="de" title="German
(de:)">Deutsch
<span class="autonym" lang="es" title="Spanish
(es:)">Español
<span class="autonym" lang="fr" title="French
(fr:)">Français
<span class="autonym" lang="it" title="Italian
(it:)">Italiano
<span class="autonym" lang="nl" title="Dutch (
nl:)">Nederlands
<span class="autonym" lang="ja" title="Japanes
e (ja:)">日本語
<span class="autonym" lang="pl" title="Polish
(pl:)">Polski
<span class="autonym" lang="pt" title="Portugu
ese (pt:)">Português
<span class="autonym" lang="ru" title="Russian
(ru:)">Русский
<span class="autonym" lang="sv" title="Swedish
(sv:)">Svenska
<span class="autonym" lang="uk" title="Ukraini
an (uk:)">Українська
<span class="autonym" lang="vi" title="Vietnam
ese (vi:)">Tiếng Việt
<span class="autonym" lang="zh" title="Chinese
(zh:)">中文

<div class="wikipedia-languages-count-container">
<div class="wikipedia-languages-prettybars"></div>
<div class="wikipedia-languages-count" role="heading">250,000+ articles</div>
<div class="wikipedia-languages-prettybars"></div>
</div>
<ul class="wikipedia-languages-langs hlist hlist-separated inline">
<span class="autonym" lang="id" title="Indones
ian (id:)">Bahasa Indonesia
<span class="autonym" lang="ms" title="Malay (
ms:)">Bahasa Melayu
<span class="autonym" lang="nan" title
="Min Nan Chinese (nan:)">Bân-lâm-gú
<span class="autonym" lang="bg" title="Bulgari
an (bg:)">Български
<span class="autonym" lang="ca" title="Catalan
(ca:)">Català
<span class="autonym" lang="cs" title="Czech (
cs:)">Čeština
<span class="autonym" lang="da" title="Danish
(da:)">Dansk
<span class="autonym" lang="eo" title="Esperan
to (eo:)">Esperanto
<span class="autonym" lang="eu" title="Basque
(eu:)">Euskara
<span class="autonym" lang="fa" title="Persian
(fa:)">فارسی
<span class="autonym" lang="he" title="Hebrew
(he:)">עברית
<span class="autonym" lang="ko" title="Korean
(ko:)">한국어
<span class="autonym" lang="hu" title="Hungari
an (hu:)">Magyar

```

<li><a class="external text" href="https://no.wikipedia.org/wiki/"><span class="autonym" lang="no" title="Norwegian (no:)">Norsk Bokmål</span></a></li>
<li><a class="external text" href="https://ro.wikipedia.org/wiki/"><span class="autonym" lang="ro" title="Romanian (ro:)">Română</span></a></li>
<li><a class="external text" href="https://sr.wikipedia.org/wiki/"><span class="autonym" lang="sr" title="Serbian (sr:)">Srpski</span></a></li>
<li><a class="external text" href="https://sh.wikipedia.org/wiki/"><span class="autonym" lang="sh" title="Serbo-Croatian (sh:)">Srpskohrvatski</span></a></li>
<li><a class="external text" href="https://fi.wikipedia.org/wiki/"><span class="autonym" lang="fi" title="Finnish (fi:)">Suomi</span></a></li>
<li><a class="external text" href="https://tr.wikipedia.org/wiki/"><span class="autonym" lang="tr" title="Turkish (tr:)">Türkçe</span></a></li>
</ul>
</li>
<li>
<div class="wikipedia-languages-count-container">
<div class="wikipedia-languages-prettybars"></div>
<div class="wikipedia-languages-count" role="heading">50,000+ articles</div>
<div class="wikipedia-languages-prettybars"></div>
</div>
<ul class="wikipedia-languages-langs hlist hlist-separated inline">
<li><a class="external text" href="https://ast.wikipedia.org/wiki/"><span class="autonym" lang="ast" title="Asturian (ast:)">Asturianu</span></a></li>
<li><a class="external text" href="https://bn.wikipedia.org/wiki/"><span class="autonym" lang="bn" title="Bangla (bn:)">বাংলা</span></a></li>
<li><a class="external text" href="https://bs.wikipedia.org/wiki/"><span class="autonym" lang="bs" title="Bosnian (bs:)">Bosanski</span></a></li>
<li><a class="external text" href="https://et.wikipedia.org/wiki/"><span class="autonym" lang="et" title="Estonian (et:)">Eesti</span></a></li>
<li><a class="external text" href="https://el.wikipedia.org/wiki/"><span class="autonym" lang="el" title="Greek (el:)">Ελληνικά</span></a></li>
<li><a class="external text" href="https://simple.wikipedia.org/wiki/"><span class="autonym" lang="simple" title="Simple English (simple:)">Simple English</span></a></li>
<li><a class="external text" href="https://gl.wikipedia.org/wiki/"><span class="autonym" lang="gl" title="Galician (gl:)">Galego</span></a></li>
<li><a class="external text" href="https://hr.wikipedia.org/wiki/"><span class="autonym" lang="hr" title="Croatian (hr:)">Hrvatski</span></a></li>
<li><a class="external text" href="https://lv.wikipedia.org/wiki/"><span class="autonym" lang="lv" title="Latvian (lv:)">Latviešu</span></a></li>
<li><a class="external text" href="https://lt.wikipedia.org/wiki/"><span class="autonym" lang="lt" title="Lithuanian (lt:)">Lietuvių</span></a></li>
<li><a class="external text" href="https://ml.wikipedia.org/wiki/"><span class="autonym" lang="ml" title="Malayalam (ml:)">മലയാളം</span></a></li>
<li><a class="external text" href="https://mk.wikipedia.org/wiki/"><span class="autonym" lang="mk" title="Macedonian (mk:)">Македонски</span></a></li>
<li><a class="external text" href="https://nn.wikipedia.org/wiki/"><span class="autonym" lang="nn" title="Norwegian Nynorsk (nn:)">Norsk nynorsk</span></a></li>
<li><a class="external text" href="https://sq.wikipedia.org/wiki/"><span class="autonym" lang="sq" title="Albanian (sq:)">Shqip</span></a></li>
<li><a class="external text" href="https://sk.wikipedia.org/wiki/"><span class="autonym" lang="sk" title="Slovak (sk:)">Slovenčina</span></a></li>
<li><a class="external text" href="https://sl.wikipedia.org/wiki/"><span class="autonym" lang="sl" title="Slovenian (sl:)">Slovenščina</span></a></li>
<li><a class="external text" href="https://th.wikipedia.org/wiki/"><span class="autonym" lang="th" title="Thai (th:)">ไทย</span></a></li>
</ul>
</li>
</ul>
</div></div>
</div>
<!--
NewPP limit report
Parsed by mw2392
Cached time: 20220920083644
Cache expiry: 3600
Reduced expiry: true
Complications: []
CPU time usage: 0.318 seconds
Real time usage: 0.450 seconds
Preprocessor visited node count: 3943/1000000
Post-expand include size: 115851/2097152 bytes
Template argument size: 9536/2097152 bytes
Highest expansion depth: 18/100
Expensive parser function count: 13/500
Unstrip recursion depth: 0/20
Unstrip post-expand size: 3979/5000000 bytes
Lua time usage: 0.127/10.000 seconds
Lua memory usage: 15397028/52428800 bytes
Number of Wikibase entities loaded: 0/400
-->
<!--
Transclusion expansion time report (%,ms,calls,template)
100.00% 339.043 1 -total
42.30% 143.418 1 Wikipedia:Today's_featured_article/September_20,_2022
30.05% 101.892 1 Template:Lang
27.64% 93.721 1 Wikipedia:Main_Page/Tomorrow
19.59% 66.402 8 Template:Main_page_image
14.03% 47.566 8 Template:Str_number/trim
12.05% 40.855 1 Template:Did_you_know/Queue/5

```


11.11%	37.678	2	Template:Main_page_image/TFA
10.34%	35.045	2	Template:Wikipedia_languages
9.58%	32.489	1	Template:DYKbotdo

-->

<!-- Saved in parser cache with key enwiki:pcache:idehash:15580374-0!canonical and timestamp 20220920083644 and revision id 1108085777.

-->

</div><noscript></noscript>

<div class="printfooter" data-nosnippet="">Retrieved from "https://en.wikipedia.org/w/index.php?title=Main_Page&oldid=1108085777"</div></div>

<div class="catlinks catlinks-allhidden" data-mw="interface" id="catlinks"><div class="mw-hidden-catlinks mw-hidden-cats-hidden" id="mw-hidden-catlinks">Hidden categories: Articles containing Italian-language text</div></div>

</div>

</div>

<div id="mw-navigation">

<h2>Navigation menu</h2>

<div id="mw-head">

<nav aria-labelledby="p-personal-label" class="vector-menu mw-portlet mw-portlet-personal vector-user-menu-legacy" id="p-personal" role="navigation">

<h3 class="vector-menu-heading" id="p-personal-label">

Personal tools

</h3>

<div class="vector-menu-content">

<ul class="vector-menu-content-list"><li class="mw-list-item" id="pt-anonuserpage">Not logged in<li class="mw-list-item" id="pt-anontalk">Talk<li class="mw-list-item" id="pt-anoncontribs">Contributions<li class="mw-list-item" id="pt-createaccount">Create account<li class="mw-list-item" id="pt-login">Log in

</div>

</nav>

<div id="left-navigation">

<nav aria-labelledby="p-namespaces-label" class="vector-menu mw-portlet mw-portlet-namespaces vector-menu-tabs vector-menu-tabs-legacy" id="p-namespaces" role="navigation">

<h3 class="vector-menu-heading" id="p-namespaces-label">

Namespaces

</h3>

<div class="vector-menu-content">

<ul class="vector-menu-content-list"><li class="selected mw-list-item" id="ca-nstab-main">Main Page<li class="mw-list-item" id="ca-talk">Talk

</div>

</nav>

<nav aria-labelledby="p-variants-label" class="vector-menu mw-portlet mw-portlet-variants emptyPortlet vector-menu-dropdown" id="p-variants" role="navigation">

<input aria-haspopup="true" aria-labelledby="p-variants-label" class="vector-menu-checkbox" data-event-name="ui.dropdown-p-variants" id="p-variants-checkbox" role="button" type="checkbox"/>

<label aria-label="Change language variant" class="vector-menu-heading" id="p-variants-label">

English

</label>

<div class="vector-menu-content">

<ul class="vector-menu-content-list">

</div>

</nav>

</div>

<div id="right-navigation">

<nav aria-labelledby="p-views-label" class="vector-menu mw-portlet mw-portlet-views vector-menu-tabs vector-menu-tabs-legacy" id="p-views" role="navigation">

<h3 class="vector-menu-heading" id="p-views-label">

Views

</h3>

<div class="vector-menu-content">

<ul class="vector-menu-content-list"><li class="selected vector-tab-noicon mw-list-item" id="ca-view">Read<li class="vector-tab-noicon mw-list-item" id="ca-viewsource">View source<li class="vector-tab-noicon mw-list-item" id="ca-history">View history

</div>

</nav>

<nav aria-labelledby="p-cactions-label" class="vector-menu mw-portlet mw-portlet-cactions emptyPortlet vector-menu-dropdown" id="p-cactions" role="navigation" title="More options">

<input aria-haspopup="true" aria-labelledby="p-cactions-label" class="vector-menu-checkbox" data-event-name="ui.dropdown-p-cactions" id="p-cactions-checkbox" role="button" type="checkbox"/>

<label class="vector-menu-heading" id="p-cactions-label">

More

</label>

<div class="vector-menu-content">

<ul class="vector-menu-content-list">

</div>

</nav>

```
<div class="vector-search-box-vue vector-search-box-show-thumbnail vector-search-box-auto-expand-width vector-search-box" id="p-search" role="search">
<div>
<h3>
<label for="searchInput">Search</label>
</h3>
<form action="/w/index.php" class="vector-search-box-form" id="searchform">
<div class="vector-search-box-inner" data-search-loc="header-navigation" id="simpleSearch">
<input accesskey="f" aria-label="Search Wikipedia" autocapitalize="sentences" class="vector-search-box-input" id="searchInput" name="search" placeholder="Search Wikipedia" title="Search Wikipedia [f]" type="search"/>
<input name="title" type="hidden" value="Special:Search"/>
<input class="searchButton mw-fallbackSearchButton" id="mw-searchButton" name="fulltext" title="Search Wikipedia for this text" type="submit" value="Search"/>
<input class="searchButton" id="searchButton" name="go" title="Go to a page with this exact name if it exists" type="submit" value="Go"/>
</div>
</form>
</div>
</div>
</div>
</div>
<div id="mw-panel">
<div id="p-logo" role="banner">
<a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main page"></a>
</div>
<nav aria-labelledby="p-navigation-label" class="vector-menu mw-portlet mw-portlet-navigation vector-menu-portal portal" id="p-navigation" role="navigation">
<h3 class="vector-menu-heading" id="p-navigation-label">
<span class="vector-menu-heading-label">Navigation</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="mw-list-item" id="n-mainpage-description"><a accesskey="z" href="/wiki/Main_Page" title="Visit the main page [z]"><span>Main page</span></a></li><li class="mw-list-item" id="n-contents"><a href="/wiki/Wikipedia:Contents" title="Guides to browsing Wikipedia"><span>Contents</span></a></li><li class="mw-list-item" id="n-currenthevents"><a href="/wiki/Portal:Current_events" title="Articles related to current events"><span>Current events</span></a></li><li class="mw-list-item" id="n-randompage"><a accesskey="x" href="/wiki/Special:Random" title="Visit a randomly selected article [x]"><span>Random article</span></a></li><li class="mw-list-item" id="n-aboutsite"><a href="/wiki/Wikipedia:About" title="Learn about Wikipedia and how it works"><span>About Wikipedia</span></a></li><li class="mw-list-item" id="n-contactpage"><a href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact Wikipedia"><span>Contact us</span></a></li><li class="mw-list-item" id="n-sitesupport"><a href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirector?utm_source=donate&utm_medium=sidebar&utm_campaign=C13_en.wikipedia.org&uselang=en" title="Support us by donating to the Wikimedia Foundation"><span>Donate</span></a></li></ul>
</div>
</div>
<nav aria-labelledby="p-interaction-label" class="vector-menu mw-portlet mw-portlet-interaction vector-menu-portal portal" id="p-interaction" role="navigation">
<h3 class="vector-menu-heading" id="p-interaction-label">
<span class="vector-menu-heading-label">Contribute</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="mw-list-item" id="n-help"><a href="/wiki/Help:Contents" title="Guidance on how to use and edit Wikipedia"><span>Help</span></a></li><li class="mw-list-item" id="n-introduction"><a href="/wiki/Help:Introduction" title="Learn how to edit Wikipedia"><span>Learn to edit</span></a></li><li class="mw-list-item" id="n-portal"><a href="/wiki/Wikipedia:Community_portal" title="The hub for editors"><span>Community portal</span></a></li><li class="mw-list-item" id="n-recentchanges"><a accesskey="r" href="/wiki/Special:RecentChanges" title="A list of recent changes to Wikipedia [r]"><span>Recent changes</span></a></li><li class="mw-list-item" id="n-upload"><a href="/wiki/Wikipedia:File_Upload_Wizard" title="Add images or other media for use on Wikipedia"><span>Upload file</span></a></li></ul>
</div>
</nav>
<nav aria-labelledby="p-tb-label" class="vector-menu mw-portlet mw-portlet-tb vector-menu-portal portal" id="p-tb" role="navigation">
<h3 class="vector-menu-heading" id="p-tb-label">
<span class="vector-menu-heading-label">Tools</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="mw-list-item" id="t-whatlinkshere"><a accesskey="j" href="/wiki/Special:WhatLinksHere/Main_Page" title="List of all English Wikipedia pages containing links to this page [j]"><span>What links here</span></a></li><li class="mw-list-item" id="t-recentchangeslinked"><a accesskey="k" href="/wiki/Special:RecentChangesLinked/Main_Page" rel="nofollow" title="Recent changes in pages linked from this page [k]"><span>Related changes</span></a></li><li class="mw-list-item" id="t-upload"><a accesskey="u" href="/wiki/Wikipedia:File_Upload_Wizard" title="Upload files [u]"><span>Upload file</span></a></li><li class="mw-list-item" id="t-specialpages"><a accesskey="q" href="/wiki/Special:SpecialPages" title="A list of all special pages [q]"><span>Special pages</span></a></li><li class="mw-list-item" id="t-permalink"><a href="/w/index.php?title=Main_Page&oldid=1108085777" title="Permanent link to this revision of this page"><span>Permanent link</span></a></li><li class="mw-list-item" id="t-info"><a href="/w/index.php?title=Main_Page&action=info" title="More information about this page"><span>Page information</span></a></li><li class="mw-list-item" id="t-cite"><a href="/w/index.php?title=Special:CiteThisPage&page=Main_Page&id=1108085777&wpFormIdentifier=titleform" title="Information on how to cite this page"><span>Cite this page</span></a></li><li class="mw-list-item" id="t-wikibase"><a accesskey="g" href="https://www.wikidata.org/wiki/Special:EntityPage/Q5296" title="Structured data on this page hosted by Wikidata [g]"><span>Wikidata item</span></a></li></ul>
</div>
</nav>
<nav aria-labelledby="p-coll-print-export-label" class="vector-menu mw-portlet mw-portlet-coll-print-export vector-menu-portal portal" id="p-coll-print-export" role="navigation">
<h3 class="vector-menu-heading" id="p-coll-print-export-label">
<span class="vector-menu-heading-label">Print/export</span>
</h3>
```

```
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="mw-list-item" id="coll-download-as-rl"><a href="/w/index.php?title=Special:DownloadAsPdf&amp;page=Main_Page&amp;action=show-download-screen" title="Download this page as a PDF file"><span>Download as PDF</span></a></li><li class="mw-list-item" id="t-print"><a accesskey="p" href="/w/index.php?title=Main_Page&amp;printable=yes" title="Printable version of this page [p]"><span>Printable version</span></a></li></ul>
</div>
</nav>
<nav aria-labelledby="p-wikibase-otherprojects-label" class="vector-menu mw-portlet mw-portlet-wikibase-otherprojects vector-menu-portal portal" id="p-wikibase-otherprojects" role="navigation">
<h3 class="vector-menu-heading" id="p-wikibase-otherprojects-label">
<span class="vector-menu-heading-label">In other projects</span>
</h3>
<div class="vector-menu-content">
<ul class="vector-menu-content-list"><li class="wb-otherproject-link wb-otherproject-commons mw-list-item"><a href="https://commons.wikimedia.org/wiki/Main_Page" hreflang="en"><span>Wikimedia Commons</span></a></li><li class="wb-otherproject-link wb-otherproject-mediawiki mw-list-item"><a href="https://www.mediawiki.org/wiki/MediaWiki" hreflang="en"><span>MediaWiki</span></a></li><li class="wb-otherproject-link wb-otherproject-meta mw-list-item"><a href="https://meta.wikimedia.org/wiki/Main_Page" hreflang="en"><span>Meta-Wiki</span></a></li><li class="wb-otherproject-link wb-otherproject-sources mw-list-item"><a href="https://wikisource.org/wiki/Main_Page" hreflang="en"><span>Multilingual Wikisource</span></a></li><li class="wb-otherproject-link wb-otherproject-species mw-list-item"><a href="https://species.wikimedia.org/wiki/Main_Page" hreflang="en"><span>Wikispecies</span></a></li><li class="wb-otherproject-link wb-otherproject-wikibooks mw-list-item"><a href="https://en.wikibooks.org/wiki/Main_Page" hreflang="en"><span>Wikibooks</span></a></li><li class="wb-otherproject-link wb-otherproject-wikidata mw-list-item"><a href="https://www.wikidata.org/wiki/Wikidata:Main_Page" hreflang="en"><span>Wikidata</span></a></li><li class="wb-otherproject-link wb-otherproject-wikimania mw-list-item"><a href="https://wikimania.wikimedia.org/wiki/2022:Wikimania" hreflang="en"><span>Wikimania</span></a></li><li class="wb-otherproject-link wb-otherproject-wikinews mw-list-item"><a href="https://en.wikinews.org/wiki/Main_Page" hreflang="en"><span>Wikinews</span></a></li><li class="wb-otherproject-link wb-otherproject-wikiquote mw-list-item"><a href="https://en.wikiquote.org/wiki/Main_Page" hreflang="en"><span>Wikiquote</span></a></li><li class="wb-otherproject-link wb-otherproject-wikisource mw-list-item"><a href="https://en.wikisource.org/wiki/Main_Page" hreflang="en"><span>Wikisource</span></a></li><li class="wb-otherproject-link wb-otherproject-wikiversity mw-list-item"><a href="https://en.wikiversity.org/wiki/Wikiversity:Main_Page" hreflang="en"><span>Wikiversity</span></a></li><li class="wb-otherproject-link wb-otherproject-wikivoyage mw-list-item"><a href="https://en.wikivoyage.org/wiki/Main_Page" hreflang="en"><span>Wikivoyage</span></a></li><li class="wb-otherproject-link wb-otherproject-wiktionary mw-list-item"><a href="https://en.wiktionary.org/wiki/Wiktionary:Main_Page" hreflang="en"><span>Wiktionary</span></a></li></ul>
</div>
</nav>
<nav aria-labelledby="p-lang-label" class="vector-menu mw-portlet mw-portlet-lang vector-menu-portal portal" id="p-lang" role="navigation">
<h3 class="vector-menu-heading" id="p-lang-label">
<span class="vector-menu-heading-label">Languages</span>
</h3>
<div class="vector-menu-content">
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title="Catalan"><span>Català</span></a></li><li class="interlanguage-link interwiki-cs mw-list-item"><a class="interlanguage-link-target" href="https://cs.wikipedia.org/wiki/" hreflang="cs" lang="cs" title="Czech"><span>Čeština</span></a></li><li class="interlanguage-link interwiki-da mw-list-item"><a class="interlanguage-link-target" href="https://da.wikipedia.org/wiki/" hreflang="da" lang="da" title="Danish"><span>Dansk</span></a></li><li class="interlanguage-link interwiki-de mw-list-item"><a class="interlanguage-link-target" href="https://de.wikipedia.org/wiki/" hreflang="de" lang="de" title="German"><span>Deutsch</span></a></li><li class="interlanguage-link interwiki-et mw-list-item"><a class="interlanguage-link-target" href="https://et.wikipedia.org/wiki/" hreflang="et" lang="et" title="Estonian"><span>Eesti</span></a></li><li class="interlanguage-link interwiki-el mw-list-item"><a class="interlanguage-link-target" href="https://el.wikipedia.org/wiki/" hreflang="el" lang="el" title="Greek"><span>Ελληνικά</span></a></li><li class="interlanguage-link interwiki-es mw-list-item"><a class="interlanguage-link-target" href="https://es.wikipedia.org/wiki/" hreflang="es" lang="es" title="Spanish"><span>Español</span></a></li><li class="interlanguage-link interwiki-eo mw-list-item"><a class="interlanguage-link-target" href="https://eo.wikipedia.org/wiki/" hreflang="eo" lang="eo" title="Esperanto"><span>Esperanto</span></a></li><li class="interlanguage-link interwiki-eu mw-list-item"><a class="interlanguage-link-target" href="https://eu.wikipedia.org/wiki/" hreflang="eu" lang="eu" title="Basque"><span>Euskara</span></a></li><li class="interlanguage-link interwiki-fa mw-list-item"><a class="interlanguage-link-target" href="https://fa.wikipedia.org/wiki/" hreflang="fa" lang="fa" title="Persian"><span>فارسی</span></a></li><li class="interlanguage-link interwiki-fr mw-list-item"><a class="interlanguage-link-target" href="https://fr.wikipedia.org/wiki/" hreflang="fr" 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```

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</div>
</nav>
</div>
</div>

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<li id="footer-info-copyright">Text is available under the Creative Commons Attribution-ShareAlike License 3.0; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.

<ul id="footer-places">
<li id="footer-places-privacy">Privacy policy
<li id="footer-places-about">About Wikipedia
<li id="footer-places-disclaimer">Disclaimers
<li id="footer-places-contact">Contact Wikipedia
<li id="footer-places-mobileview">Mobile view
<li id="footer-places-developers">Developers
<li id="footer-places-statlink">Statistics
<li id="footer-places-cookiestatment">Cookie statement

<ul class="noprint" id="footer-icons">
<li id="footer-copyrightico">
<li id="footer-poweredbyico">

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```

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});</script>
</body>
</html>

```

In [19]:

```

list_headers = ['h1','h2','h3']
headers = soup.find_all(list_headers)

```

headers

Out[19]:

```

[<h1 class="firstHeading mw-first-heading" id="firstHeading" style="display: none"><span class="mw-page-title-mai
n">Main Page</span></h1>,
<h1><span class="mw-headline" id="Welcome_to_Wikipedia">Welcome to <a href="/wiki/Wikipedia" title="Wikipedia">W
ikipedia</a></span></h1>,
<h2 class="mp-h2" id="mp-tfa-h2"><span id="From_today.27s_featured_article"></span><span class="mw-headline" id=
"From_today's_featured_article">From today's featured article</span></h2>,
<h2 class="mp-h2" id="mp-dyk-h2"><span class="mw-headline" id="Did_you_know_...">Did you know ...</span></h2>,
<h2 class="mp-h2" id="mp-itn-h2"><span class="mw-headline" id="In_the_news">In the news</span></h2>,
<h2 class="mp-h2" id="mp-otd-h2"><span class="mw-headline" id="On_this_day">On this day</span></h2>,
<h2 class="mp-h2" id="mp-tfp-h2"><span id="Today.27s_featured_picture"></span><span class="mw-headline" id="Toda
y's_featured_picture">Today's featured picture</span></h2>,
<h2 class="mp-h2" id="mp-other"><span class="mw-headline" id="Other_areas_of_Wikipedia">Other areas of Wikipedia
</span></h2>,
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ikipedia's_sister_projects">Wikipedia's sister projects</span></h2>,
<h2 class="mp-h2" id="mp-lang"><span class="mw-headline" id="Wikipedia_languages">Wikipedia languages</span></h2
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<h3 class="vector-menu-heading" id="p-views-label">
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</h3>,
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<h3 class="vector-menu-heading" id="p-interaction-label">
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<h3 class="vector-menu-heading" id="p-tb-label">
<span class="vector-menu-heading-label">Tools</span>
</h3>,
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<span class="vector-menu-heading-label">Print/export</span>
</h3>,
<h3 class="vector-menu-heading" id="p-wikibase-otherprojects-label">
<span class="vector-menu-heading-label">In other projects</span>
</h3>,
<h3 class="vector-menu-heading" id="p-lang-label">
<span class="vector-menu-heading-label">Languages</span>
</h3>]

```

2) Write a python program to display IMDB's Top rated 100 movies' data (i.e. name, rating, year of release) and make data frame

In [20]:

```

page = requests.get('https://www.imdb.com/search/title/?groups=top_100&sort=user_rating,desc')
page

```

<Response [200]>

Out[20]:

```
In [21]: soup = BeautifulSoup(page.content)
```

```
In [25]: soup.find('title')
```

Out[25]: <title>IMDb "Top 100"
(Sorted by IMDb Rating Descending) - IMDb</title>

```
In [38]: names = []
for i in soup.find_all('h3',class_="list-item-header"):
    names.append(i.find('a').text)
names[:5] # we are printing top 5 high rated films
```

Out[38]: ['The Shawshank Redemption',
'The Godfather',
'The Dark Knight',
'The Lord of the Rings: The Return of the King',
'Schindler's List']

```
In [49]: rating = []

for i in soup.find_all('div',class_="inline-block ratings-imdb-rating"):
    rating.append(i.get_text().replace('\n',''))

rating[:5] # The first top 5 ratings
```

Out[49]: ['9.3', '9.2', '9.0', '9.0', '9.0']

```
In [55]: year_of_release = []

for i in soup.find_all('span',class_="list-item-year text-muted unbold"):
    year_of_release.append(i.get_text().strip()[1:5])

year_of_release[:5] # Top 5 release years
```

Out[55]: ['1994', '1972', '2008', '2003', '1993']

```
In [57]: import pandas as pd

imdb = pd.DataFrame({'Name':names,'Rating':rating,'year_of_release':year_of_release})
imdb.head()
```

Out[57]:

	Name	Rating	year_of_release
0	The Shawshank Redemption	9.3	1994
1	The Godfather	9.2	1972
2	The Dark Knight	9.0	2008
3	The Lord of the Rings: The Return of the King	9.0	2003
4	Schindler's List	9.0	1993

3) Write a python program to display IMDB's Top rated 100 Indian movies' data (i.e. name, rating, year of release) and make data frame.

```
In [114]: page = requests.get('https://www.imdb.com/india/top-rated-indian-movies/')
page
```

Out[114]: <Response [200]>

```
In [115]: soup = BeautifulSoup(page.content)
```

```
In [116... # print(soup.prettify()) # to see the content clearly
```

```
In [119... names = []
for i in soup.find_all('td',class_="titleColumn"):
    names.append(i.get_text().replace('\n','').split('.')[1]) # I have remove the /n and reduced the blank space
names[:5] # printing only top 5 movies
```

```
Out[119... [' Rocketry: The Nambi Effect(2022)',
 ' Anbe Sivam(2003)',
 ' Jai Bhim(2021)',
 ' Nayakan(1987)',
 ' Golmaal(1979)']
```

```
In [120... ratings = []
for i in soup.find_all('td',class_="ratingColumn imdbRating"):
    ratings.append(i.get_text().replace('\n','')) # I have used replace method tp remove \n
ratings[:5] # printed the top 5 ratings
```

```
Out[120... ['8.5', '8.4', '8.4', '8.4', '8.4']
```

```
In [121... year_of_release = []
for i in soup.find_all('span',class_="secondaryInfo"):
    year_of_release.append(i.get_text().strip()[1:5]) # i have used the strip method to remove the parenthesis
year_of_release[:5] # printing the top 5 years
```

```
Out[121... ['2022', '2003', '2021', '1987', '1979']
```

```
In [122... ind_imdb = pd.DataFrame({'name':names,'rating':ratings,'year_of_release':year_of_release})
ind_imdb.head()
```

```
Out[122...      name  rating  year_of_release
0  Rocketry: The Nambi Effect(2022)    8.5          2022
1      Anbe Sivam(2003)    8.4          2003
2      Jai Bhim(2021)    8.4          2021
3      Nayakan(1987)    8.4          1987
4      Golmaal(1979)    8.4          1979
```

4) Write a python program to display list of respected former presidents of India(i.e. Name , Term of office) from <https://presidentofindia.nic.in/former-presidents.htm>

```
In [93]: page = requests.get('https://presidentofindia.nic.in/former-presidents.htm')
page
```

```
Out[93]: <Response [200]>
```

```
In [94]: soup = BeautifulSoup(page.content)
```

```
In [104... names = []
for i in soup.find_all('div',class_="presidentListing"):
    names.append(i.find('h3').text.split('(')[0]) # we have used split to separate the dob and name
names
```

```
Out[104... ['Shri Ram Nath Kovind ',
 'Shri Pranab Mukherjee ',
 'Smt Pratibha Devisingh Patil ',
 'DR. A.P.J. Abdul Kalam ',
 'Shri K. R. Narayanan ',
 'Dr Shankar Dayal Sharma ',
```

```
'Shri R Venkataraman ',
'Giani Zail Singh ',
'Shri Neelam Sanjiva Reddy ',
'Dr. Fakhruddin Ali Ahmed ',
'Shri Varahagiri Venkata Giri ',
'Dr. Zakir Husain ',
'Dr. Sarvepalli Radhakrishnan ',
'Dr. Rajendra Prasad ']
```

```
In [102... term = []
for i in soup.find_all('div',class_="presidentListing"):
    term.append(i.find('p').text.split(':')[1])

term
```

```
Out[102... [' 25 July, 2017 to 25 July, 2022 ',
' 25 July, 2012 to 25 July, 2017 ',
' 25 July, 2007 to 25 July, 2012 ',
' 25 July, 2002 to 25 July, 2007 ',
' 25 July, 1997 to 25 July, 2002 ',
' 25 July, 1992 to 25 July, 1997 ',
' 25 July, 1987 to 25 July, 1992 ',
' 25 July, 1982 to 25 July, 1987 ',
' 25 July, 1977 to 25 July, 1982 ',
' 24 August, 1974 to 11 February, 1977',
' 3 May, 1969 to 20 July, 1969 and 24 August, 1969 to 24 August, 1974',
' 13 May, 1967 to 3 May, 1969',
' 13 May, 1962 to 13 May, 1967',
' 26 January, 1950 to 13 May, 1962']
```

```
In [105... print(len(names),len(term))
```

```
14 14
```

```
In [106... president_df = pd.DataFrame({'Name':names,'Term of Office':term})
president_df.head()
```

```
Out[106...      Name      Term of Office
0  Shri Ram Nath Kovind  25 July, 2017 to 25 July, 2022
1  Shri Pranab Mukherjee  25 July, 2012 to 25 July, 2017
2  Smt Pratibha Devisingh Patil  25 July, 2007 to 25 July, 2012
3  DR. A.P.J. Abdul Kalam  25 July, 2002 to 25 July, 2007
4  Shri K. R. Narayanan  25 July, 1997 to 25 July, 2002
```

6) Write a python program to scrape cricket rankings from icc-cricket.com. You have to scrape:

a) Top 10 ODI teams in women's cricket along with the records for matches, points and rating.

```
In [123... page = requests.get('https://www.icc-cricket.com/rankings/womens/team-rankings/odi')
page
```

```
Out[123... <Response [200]>
```

```
In [124... soup = BeautifulSoup(page.content)
```

```
In [125... team = []

for i in soup.find_all('span',class_="u-hide-phablet"):
    team.append(i.get_text())

team
```

```
Out[125... ['Australia',
'England',
'South Africa',
```



```
'India',  
'New Zealand',  
'West Indies',  
'Bangladesh',  
'Pakistan',  
'Ireland',  
'Sri Lanka',  
'Zimbabwe']
```

In [127...

```
matches = []  
  
for i in soup.find_all('td',class_="rankings-block__banner--matches"):  
    matches.append(i.text)  
  
matches
```

Out[127...

```
['29']
```

In [134...

```
matches_points_info = []  
data = soup.find_all("td",class_="table-body__cell u-center-text")  
for i in data:  
    matches_points_info.append(i.text)
```

In [135...

```
matches_points_info # here the matches and points are stored together and we should iterate through this in even
```

Out[135...

```
['34',  
'4,097',  
'35',  
'4,157',  
'33',  
'3,392',  
'32',  
'3,161',  
'31',  
'2,815',  
'12',  
'930',  
'30',  
'1,962',  
'11',  
'516',  
'11',  
'495',  
'8',  
'0']
```

In [138...

```
# MATCHES  
for i in range(0,len(matches_points_info),2):  
    matches.append((matches_points_info[i]))  
  
matches
```

Out[138...

```
['29', '34', '35', '33', '32', '31', '12', '30', '11', '11', '8']
```

In [141...

```
#POINTS  
points = []  
  
for i in soup.find_all('td',class_="rankings-block__banner--points"):  
    points.append(i.text)  
  
points
```

Out[141...

```
['4,837']
```

In [142...

```
# similiary we iterate through matches_points_info, in odd indexing to find points  
  
for i in range(1,len(matches_points_info),2):  
    points.append((matches_points_info[i]))  
  
points
```

```
Out[142... ['4,837',
            '4,097',
            '4,157',
            '3,392',
            '3,161',
            '2,815',
            '930',
            '1,962',
            '516',
            '495',
            '0']
```

```
In [151... #RATINGS
ratings = []
for i in soup.find_all('td',class_="rankings-block_banner--rating u-text-right"):
    ratings.append(i.get_text().replace('\n','').strip(' ')) # We have use replace to remove \n and strip to remove spaces
ratings # we can extract only one rating
```

```
Out[151... ['167']
```

```
In [152... # rest of the ratings are together in another class
# so we have to find these and add the first rating
ratings_info = soup.find_all('td',class_="table-body__cell u-text-right rating")
for i in ratings_info:
    ratings.append(i.text)
ratings
```

```
Out[152... ['167', '121', '119', '103', '99', '91', '78', '65', '47', '45', '0']
```

```
In [155... # TOP 10 ODI TEAMS WOMEN
women_odi_rankings = pd.DataFrame({'Team':team,'Matches':matches,'Points':points,'Ratings':ratings})
women_odi_rankings
```

```
Out[155...
```

	Team	Matches	Points	Ratings
0	Australia	29	4,837	167
1	England	34	4,097	121
2	South Africa	35	4,157	119
3	India	33	3,392	103
4	New Zealand	32	3,161	99
5	West Indies	31	2,815	91
6	Bangladesh	12	930	78
7	Pakistan	30	1,962	65
8	Ireland	11	516	47
9	Sri Lanka	11	495	45
10	Zimbabwe	8	0	0

b) Top 10 women's ODI Batting players along with the records of their team and rating.

```
In [156... page = requests.get('https://www.icc-cricket.com/rankings/womens/player-rankings/odi/batting')
page
```

```
Out[156... <Response [200]>
```

```
In [157... soup = BeautifulSoup(page.content)
```

```
In [179... player = []
for i in soup.find_all('div',class_="rankings-block_banner--name-large"):
    player.append(i.text)
player
```

```
Out[179... ['Alyssa Healy']
```

```
In [186... sec_info = soup.find_all('td',class_="table-body__cell rankings-table__name name")

for i in sec_info[:10]:

    player.append(i.text.replace('\n',''))

player
```

Out[186... ['Alyssa Healy',
'Beth Mooney',
'Natalie Sciver',
'Laura Wolvaardt',
'Meg Lanning',
'Rachael Haynes',
'Smriti Mandhana',
'Amy Satterthwaite',
'Harmanpreet Kaur',
'Chamari Athapaththu',
'Tammy Beaumont']

```
In [187... country = []
for i in soup.find_all('div',class_="rankings-block__banner--nationality"):
    country.append(i.get_text().replace('/n','').split()[0])
country
```

Out[187... ['AUS']

```
In [188... country_info = soup.find_all('span',class_="table-body__logo-text")
for i in country_info[:10]:
    country.append(i.text.replace('/n',''))
country
```

Out[188... ['AUS', 'AUS', 'ENG', 'SA', 'AUS', 'AUS', 'IND', 'NZ', 'IND', 'SL', 'ENG']

```
In [189... rating = []
for i in soup.find_all('div',class_="rankings-block__banner--rating"):
    rating.append(i.text)
rating
```

Out[189... ['785']

```
In [190... rating_info = soup.find_all('td',class_="table-body__cell rating")
for i in rating_info[:10]:
    rating.append(i.text)
rating
```

Out[190... ['785', '749', '740', '732', '710', '701', '698', '681', '662', '655', '645']

```
In [191... # Top 10 WOMEN'S BATTING RANKINGS
women_batting = pd.DataFrame({'Player':player,'Country':country,'Rating':rating})
women_batting
```

Out[191...

	Player	Country	Rating
0	Alyssa Healy	AUS	785
1	Beth Mooney	AUS	749
2	Natalie Sciver	ENG	740
3	Laura Wolvaardt	SA	732
4	Meg Lanning	AUS	710
5	Rachael Haynes	AUS	701
6	Smriti Mandhana	IND	698
7	Amy Satterthwaite	NZ	681
8	Harmanpreet Kaur	IND	662

9	Chamari Athapaththu	SL	655
10	Tammy Beaumont	ENG	645

c) Top 10 women's ODI all-rounder along with the records of their team and rating.

```
In [217... page = requests.get('https://www.icc-cricket.com/rankings/womens/player-rankings/odi/all-rounder')
page
```

```
Out[217... <Response [200]>
```

```
In [218... soup = BeautifulSoup(page.content)
```

```
In [226... player = []
for i in soup.find_all('div',class_="rankings-block__banner--name-large"):
    player.append(i.text)
player
```

```
Out[226... ['Ellyse Perry']
```

```
In [227... player_info = soup.find_all('td',class_="table-body__cell rankings-table__name name")
for i in player_info[:10]:

    player.append(i.text.replace('\n',''))

player
```

```
Out[227... ['Ellyse Perry',
'Natalie Sciver',
'Marizanne Kapp',
'Hayley Matthews',
'Amelia Kerr',
'Deepti Sharma',
'Ashleigh Gardner',
'Jess Jonassen',
'Jhulan Goswami',
'Sophie Ecclestone',
'Katherine Brunt']
```

```
In [230... country = []
for i in soup.find_all('div',class_="rankings-block__banner--nationality"):
    country.append(i.text.replace('\n','').split()[0])
country
```

```
Out[230... ['AUS']
```

```
In [231... country_info = soup.find_all('span',class_="table-body__logo-text")
for i in country_info[:10]:
    country.append(i.text.replace('\n',''))
country
```

```
Out[231... ['AUS', 'ENG', 'SA', 'WI', 'NZ', 'IND', 'AUS', 'AUS', 'IND', 'ENG', 'ENG']
```

```
In [232... rating = []
for i in soup.find_all('div',class_="rankings-block__banner--rating"):
    rating.append(i.text)
rating
```

```
Out[232... ['374']
```

```
In [234... rating_info = soup.find_all('td',class_="table-body__cell rating")
for i in rating_info[:10]:
    rating.append(i.text)
```

```
rating
```

```
Out[234...] ['374', '372', '349', '339', '336', '271', '270', '246', '219', '217', '215']
```

```
In [235...] # TOP 10 WOMEN ALLROUNDERS
women_allrounders = pd.DataFrame({'Player':player,'Country':country,'Rating':rating})
women_allrounders
```

```
Out[235...]
   Player Country Rating
0  Ellyse Perry   AUS   374
1  Natalie Sciver  ENG   372
2  Marizanne Kapp   SA   349
3  Hayley Matthews  WI   339
4  Amelia Kerr     NZ   336
5  Deepti Sharma   IND   271
6  Ashleigh Gardner  AUS   270
7  Jess Jonassen   AUS   246
8  Jhulan Goswami   IND   219
9  Sophie Ecclestone  ENG   217
10 Katherine Brunt  ENG   215
```

5) Write a python program to scrape cricket rankings from [icc-cricket.com](https://www.icc-cricket.com/rankings/mens/team-rankings/odi). You have to scrape:

a) Top 10 ODI teams in men's cricket along with the records for matches, points and rating.

```
In [237...] page = requests.get('https://www.icc-cricket.com/rankings/mens/team-rankings/odi')
page
```

```
Out[237...] <Response [200]>
```

```
In [238...] soup = BeautifulSoup(page.content)
```

```
In [240...] team = []
for i in soup.find_all('span',class_="u-hide-phablet")[0:11]:
    team.append(i.text)
team
```

```
Out[240...] ['England',
'New Zealand',
'India',
'Pakistan',
'Australia',
'South Africa',
'Bangladesh',
'Sri Lanka',
'West Indies',
'Afghanistan',
'Ireland']
```

```
In [259...] matches = []
for i in soup.find_all('td',class_="rankings-block__banner--matches"):
    matches.append(i.text)
matches
```

```
Out[259...] ['27']
```

```
In [260...] matches_info = []
for i in soup.find_all('td',class_="table-body__cell u-center-text"):
    matches_info.append(i.text)
matches_info
```

```
# similar to the women's problem
```

Out[260...

```
['22',  
'2,508',  
'31',  
'3,447',  
'22',  
'2,354',  
'29',  
'3,071',  
'21',  
'2,111',  
'30',  
'2,753',  
'29',  
'2,658',  
'41',  
'2,902',  
'18',  
'1,238',  
'23',  
'1,214',  
'27',  
'1,254',  
'26',  
'1,098',  
'21',  
'673',  
'22',  
'697',  
'30',  
'919',  
'25',  
'688',  
'15',  
'369',  
'22',  
'331',  
'24',  
'246']
```

In [262...

```
for i in range(0,len(matches_info),2):  
    matches.append((matches_info[i]))  
  
matches
```

Out[262...

```
['27',  
'22',  
'31',  
'22',  
'29',  
'21',  
'30',  
'29',  
'41',  
'18',  
'23',  
'27',  
'26',  
'21',  
'22',  
'30',  
'25',  
'15',  
'22',  
'24',  
'22',  
'31',  
'22',  
'29',  
'21',  
'30',  
'29',  
'41',  
'18',  
'23',  
'27',  
'26',  
'21',  
'22',  
'30',  
'25',  
'15',  
'22',
```

```
'24']
```

```
In [264...
```

```
matches = matches[:11]
matches
```

```
Out[264...
```

```
['27', '22', '31', '22', '29', '21', '30', '29', '41', '18', '23']
```

```
In [265...
```

```
points = []

for i in soup.find_all('td',class_="rankings-block__banner--points"):
    points.append(i.text)
points
```

```
Out[265...
```

```
['3,226']
```

```
In [266...
```

```
# Now we find the top 10 points using matches_info by odd indexing
for i in range(1,len(matches_info),2):

    points.append((matches_info[i]))

points
```

```
Out[266...
```

```
['3,226',
'2,508',
'3,447',
'2,354',
'3,071',
'2,111',
'2,753',
'2,658',
'2,902',
'1,238',
'1,214',
'1,254',
'1,098',
'673',
'697',
'919',
'688',
'369',
'331',
'246']
```

```
In [267...
```

```
points = points[:11]
points
```

```
Out[267...
```

```
['3,226',
'2,508',
'3,447',
'2,354',
'3,071',
'2,111',
'2,753',
'2,658',
'2,902',
'1,238',
'1,214']
```

```
In [271...
```

```
ratings = []
for i in soup.find_all('td',class_="rankings-block__banner--rating u-text-right"):
    ratings.append(i.text.replace('\n','').split()[0])
ratings
```

```
Out[271...
```

```
['119']
```

```
In [272...
```

```
ratings_info = soup.find_all('td',class_="table-body__cell u-text-right rating")
for i in ratings_info[:10]:
    ratings.append(i.text.replace('\n',''))
ratings
```

```
Out[272...] ['119', '114', '111', '107', '106', '101', '92', '92', '71', '69', '53']
```

```
In [273...] # TOP 10 RANKINGS TEAMS MEN

top_men = pd.DataFrame({'Team':team,'Matches':matches,'Points':points,'Ratings':ratings})
top_men
```

```
Out[273...]
   Team  Matches  Points  Ratings
0  England      27   3,226     119
1  New Zealand   22   2,508     114
2    India      31   3,447     111
3  Pakistan     22   2,354     107
4  Australia     29   3,071     106
5  South Africa  21   2,111     101
6  Bangladesh   30   2,753      92
7  Sri Lanka     29   2,658      92
8  West Indies   41   2,902      71
9  Afghanistan   18   1,238      69
10  Ireland      23   1,214      53
```

b) Top 10 ODI Batsmen along with the records of their team and rating.

```
In [274...] page = requests.get('https://www.icc-cricket.com/rankings/mens/player-rankings/odi/batting')
page
```

```
Out[274...] <Response [200]>
```

```
In [275...] soup = BeautifulSoup(page.content)
```

```
In [276...] player = []
for i in soup.find_all('div',class_="rankings-block__banner--name-large"):
    player.append(i.text)
player
```

```
Out[276...] ['Babar Azam']
```

```
In [277...] player_info = soup.find_all('td',class_="table-body__cell rankings-table__name name")
for i in player_info[:10]:
    player.append(i.text.replace('\n',''))
player
```

```
Out[277...] ['Babar Azam',
'Rassie van der Dussen',
'Quinton de Kock',
'Imam-ul-Haq',
'Virat Kohli',
'Rohit Sharma',
'Jonny Bairstow',
'David Warner',
'Ross Taylor',
'Steve Smith',
'Shikhar Dhawan']
```

```
In [280...] team = []
for i in soup.find_all('div',class_="rankings-block__banner--nationality"):
    team.append(i.text.replace('\n','').split()[0])
team
```

```
Out[280...] ['PAK']
```



```
In [281... team_info = soup.find_all('span',class_="table-body__logo-text")
for i in team_info[:10]:
    team.append(i.text.replace('\n',''))
team

Out[281... ['PAK', 'SA', 'SA', 'PAK', 'IND', 'IND', 'ENG', 'AUS', 'NZ', 'AUS', 'IND']
```

```
In [283... rating = []
for i in soup.find_all('div',class_="rankings-block__banner--rating"):
    rating.append(i.text)
rating

Out[283... ['890']
```

```
In [284... rating_info = soup.find_all('td',class_="table-body__cell rating")
for i in rating_info[:10]:
    rating.append(i.text)
rating

Out[284... ['890', '789', '784', '779', '744', '740', '732', '725', '701', '697', '696']
```

```
In [285... # TOP 10 MENS BATSMEN RANKINGS
```

```
In [287... men_batting = pd.DataFrame({'Player':player,'Team':team,'Rating':rating})
men_batting
```

```
Out[287...
      Player Team Rating
0      Babar Azam  PAK    890
1  Rassie van der Dussen  SA    789
2    Quinton de Kock   SA    784
3    Imam-ul-Haq   PAK    779
4    Virat Kohli   IND    744
5    Rohit Sharma   IND    740
6    Jonny Bairstow  ENG    732
7    David Warner  AUS    725
8    Ross Taylor   NZ    701
9    Steve Smith   AUS    697
10   Shikhar Dhawan  IND    696
```

c) Top 10 ODI bowlers along with the records of their team and rating.

```
In [288... page = requests.get('https://www.icc-cricket.com/rankings/mens/player-rankings/odi/bowling')
page

Out[288... <Response [200]>
```

```
In [289... soup = BeautifulSoup(page.content)
```

```
In [294... player = []
for i in soup.find_all('div',class_="rankings-block__banner--name-large"):
    player.append(i.text)
player

Out[294... ['Trent Boult']
```

```
In [295... player_info = soup.find_all('td',class_="table-body__cell rankings-table__name name")
```

```
for i in player_info[:10]:
    player.append(i.text.replace('\n',''))
player
```

```
Out[295... ['Trent Boult',
              'Josh Hazlewood',
              'Mujeeb Ur Rahman',
              'Jasprit Bumrah',
              'Shaheen Afridi',
              'Mohammad Nabi',
              'Mehedi Hasan',
              'Matt Henry',
              'Mitchell Starc',
              'Rashid Khan',
              'Mustafizur Rahman']
```

```
In [297... team = []
for i in soup.find_all('div',class_="rankings-block__banner--nationality"):
    team.append(i.text.replace('\n','').split()[0])
team
```

```
Out[297... ['NZ']
```

```
In [299... team_info = soup.find_all('span',class_="table-body__logo-text")
for i in team_info[:10]:
    team.append(i.text.replace('\n',''))
team
```

```
Out[299... ['NZ', 'AUS', 'AFG', 'IND', 'PAK', 'AFG', 'BAN', 'NZ', 'AUS', 'AFG', 'BAN']
```

```
In [300... rating = []
for i in soup.find_all('div',class_="rankings-block__banner--rating"):
    rating.append(i.text)
rating
```

```
Out[300... ['775']
```

```
In [301... rating_info = soup.find_all('td',class_="table-body__cell rating")
for i in rating_info[:10]:
    rating.append(i.text)
rating
```

```
Out[301... ['775', '718', '676', '662', '661', '657', '655', '654', '653', '651', '640']
```

```
In [302... # TOP 10 MEN BOWLER RANKINGS

men_bowling = pd.DataFrame({'Player':player,'Team':team,'Rating':rating})
men_bowling
```

```
Out[302...
   Player Team Rating
0  Trent Boult    NZ   775
1  Josh Hazlewood  AUS   718
2  Mujeeb Ur Rahman  AFG   676
3   Jasprit Bumrah  IND   662
4   Shaheen Afridi  PAK   661
5   Mohammad Nabi  AFG   657
6   Mehedi Hasan   BAN   655
7    Matt Henry    NZ   654
8  Mitchell Starc  AUS   653
9    Rashid Khan  AFG   651
10 Mustafizur Rahman  BAN   640
```

7) Write a python program to scrape mentioned news details from <https://www.cnbc.com/world/?region=world>

```
In [427... page = requests.get('https://www.cnbc.com/world/?region=world')
page
```

```
Out[427... <Response [200]>
```

```
In [428... soup = BeautifulSoup(page.content)
```

```
In [435... headline = []
for i in soup.find_all('div',class_="RiverHeadline-headline RiverHeadline-hasThumbnail"):
    headline.append(i.text)
headline
```

```
Out[435... ["Putin escalates tensions with war threats to the West; Ukraine slams 'fake' votes on joining Russia",
'CNBC Pro Talks: Asset manager Neil Veitch shares his top picks – and stocks to avoid',
''Path to oblivion': Ukraine military gains could deepen Russia's economic problems",
'Stock futures flat ahead of the Federal Reserve's expected interest rate hike',
'Germany nationalizes energy giant Uniper as Russia squeezes gas supplies',
'Shorter showers, slower driving and an Eiffel Tower blackout: How Europe plans to cut gas usage',
'Does FedEx's bleak outlook flash a warning signal for investors? Here's what the pros say',
'Formula 1 in 2023: Record 24-race calendar revealed as Las Vegas debuts and China returns',
'Chinese EV maker Xpeng launches rival to Tesla's semi-autonomous driving system',
'Chip-making nations like the U.S. are teaming up against China',
'History shows these under-the-radar stocks will win as the Fed continues to lift interest rates',
'Beyond Meat suspends operating chief after arrest for allegedly biting man's nose',
'European businesses are rethinking their plans for a 'closed' China",
'For the first time in 30 years, Asia's developing economies are set to grow faster than China's: ADB",
'This one number could be the key to how markets trade after Fed',
'Big business likes to trumpet ESG credentials. But a 'greenwashing' reckoning could be coming",
'Want to play the EV sector? Here's one lithium stock that analysts say could soar 70%',
'European stocks nudge higher as markets brace for more Fed action; Uniper down 27%',
''Rip off the Band-Aid': Wells Fargo makes case for a 150 basis point hike at Fed meeting",
"China's Xi and India's Modi were the last two people Putin wanted to see give him the cold shoulder"]
```

```
In [436... time = []
for i in soup.find_all('span',class_="RiverByline-datePublished"):
    time.append(i.text)

time
```

```
Out[436... ['an hour ago',
'an hour ago',
'an hour ago',
'an hour ago',
'2 hours ago',
'2 hours ago',
'19 min ago',
'19 min ago',
'3 hours ago',
'3 hours ago',
'2 hours ago',
'2 hours ago',
'4 hours ago',
'4 hours ago',
'3 hours ago',
'3 hours ago',
'4 min ago',
'4 min ago']
```

8) Write a python program to scrape the details of most downloaded articles from AI in last 90 days.

<https://www.journals.elsevier.com/artificial-intelligence/most-downloaded-articles>

```
In [438... page = requests.get('https://www.journals.elsevier.com/artificial-intelligence/most-downloaded-articles')
page
```

```
Out[438... <Response [200]>
```

```

In [439... soup = BeautifulSoup(page.content)

In [443... title = []
for i in soup.find_all('h2',class_="sc-1qrq3sd-1 MKjKb sc-1nmom32-0 sc-1nmom32-1 hqhUYH ebTA-dR"):
    title.append(i.text)
title[:5]

Out[443... ['Reward is enough',
'Making sense of raw input',
'Law and logic: A review from an argumentation perspective',
'Creativity and artificial intelligence',
'Artificial cognition for social human-robot interaction: An implementation']

In [444... authors = []
for i in soup.find_all('span',class_="sc-1w3fpd7-0 pgLAT"):
    authors.append(i.text)
authors[:5]

Out[444... ['Silver, David, Singh, Satinder, Precup, Doina, Sutton, Richard S. ',
'Evans, Richard, Bošnjak, Matko and 5 more',
'Prakken, Henry, Sartor, Giovanni ',
'Boden, Margaret A. ',
'Lemaignan, Séverin, Warnier, Mathieu and 3 more']

In [445... published_date = []
for i in soup.find_all('span',class_="sc-1thf9ly-2 bKddwo"):
    published_date.append(i.text)
published_date[:5]

Out[445... ['October 2021', 'October 2021', 'October 2015', 'August 1998', 'June 2017']

In [456... paper_url = []
for i in soup.find_all('a',class_="sc-5smylv-0 nrDZj"):
    if 'href' in i.attrs:
        paper_url.append(str(i.attrs['href']))
paper_url[:5]

Out[456... ['https://www.sciencedirect.com/science/article/pii/S0004370221000862',
'https://www.sciencedirect.com/science/article/pii/S0004370221000722',
'https://www.sciencedirect.com/science/article/pii/S0004370215000910',
'https://www.sciencedirect.com/science/article/pii/S0004370298000551',
'https://www.sciencedirect.com/science/article/pii/S0004370216300790']

```

9) Write a python program to scrape mentioned details from dineout.co.in :

i) Restaurant name

ii) Cuisine

iii) Location

iv) Ratings

v) Image URL

```

In [457... page = requests.get('https://www.dineout.co.in/delhi-restaurants/buffet-special')
page

Out[457... <Response [200]>

In [458... soup = BeautifulSoup(page.content)

In [459... rest_name = []
for i in soup.find_all('a',class_="restnt-name ellipsis"):
    rest_name.append(i.text)
rest_name

```

```
Out[459... ['Castle Barbeque',
             'Jungle Jamboree',
             'Castle Barbeque',
             'Cafe Knosh',
             'The Barbeque Company',
             'India Grill',
             'Delhi Barbeque',
             'The Monarch - Bar Be Que Village',
             'Indian Grill Room']
```

```
In [460... cuisines = []
for i in soup.find_all('span',class_="double-line-ellipsis"):
    cuisines.append(i.text.split('|')[1])

cuisines
```

```
Out[460... [' Chinese, North Indian',
            ' North Indian, Asian, Italian',
            ' Chinese, North Indian',
            ' Italian, Continental',
            ' North Indian, Chinese',
            ' North Indian, Italian',
            ' North Indian',
            ' North Indian',
            ' North Indian, Mughlai']
```

```
In [461... location = []

for i in soup.find_all('div',class_="restnt-loc ellipsis"):
    location.append(i.text)

location
```

```
Out[461... ['Connaught Place, Central Delhi',
            '3CS Mall,Lajpat Nagar - 3, South Delhi',
            'Pacific Mall,Tagore Garden, West Delhi',
            'The Leela Ambience Convention Hotel,Shahdara, East Delhi',
            'Gardens Galleria,Sector 38A, Noida',
            'Hilton Garden Inn,Saket, South Delhi',
            'Taurus Sarovar Portico,Mahipalpur, South Delhi',
            'Indirapuram Habitat Centre,Indirapuram, Ghaziabad',
            'Suncity Business Tower,Golf Course Road, Gurgaon']
```

```
In [462... ratings = []
for i in soup.find_all('div',class_="restnt-rating rating-4"):
    ratings.append(i.text)

ratings
```

```
Out[462... ['4.1', '3.9', '3.9', '4.3', '4', '3.9', '3.7', '3.8', '4.3']
```

10) Write a python program to scrape the details of top publications from Google Scholar from

https://scholar.google.com/citations?view_op=top_venues&hl=en

i) Rank

ii) Publication

iii) h5-index

iv) h5-media

```
In [463... page = requests.get('https://scholar.google.com/citations?view_op=top_venues&hl=en')
page
```

```
Out[463... <Response [200]>
```

```
In [464... soup = BeautifulSoup(page.content)
```

```
In [468... rank = []
for i in soup.find_all('td',class_="gsc_mvt_p"):
    rank.append(i.text.split('.')[0])
rank[:5] # we are printing only 5 ranks beacuse there are 101
```

```
Out[468... ['1', '2', '3', '4', '5']
```

```
In [470... publication = []
for i in soup.find_all('td',class_="gsc_mvt_t"):
    publication.append(i.text)
publication[:5]
```

```
Out[470... ['Nature',
'The New England Journal of Medicine',
'Science',
'IEEE/CVF Conference on Computer Vision and Pattern Recognition',
'The Lancet']
```

```
In [475... info = [] # hf_index and h5 media values are togther

for i in soup.find_all('td',class_="gsc_mvt_n"):
    info.append(i.text)

info[:5] # the first value is hf_index and sec values is h5_media
```

```
Out[475... ['444', '667', '432', '780', '401']
```

```
In [478... # So we iterated through the info to get the first value and every alternative odd value to get the hf_index valu
hf_index = []
for i in range(0,len(info),2):
    hf_index.append(info[i])
hf_index[:5]
```

```
Out[478... ['444', '432', '401', '389', '354']
```

```
In [480... h5_media = []
for i in range(1,len(info),2):
    h5_media.append(info[i])
h5_media[:5]
```

```
Out[480... ['667', '780', '614', '627', '635']
```

```
In [ ]:
```