# Build a web content extractor that extracts text from a HTML file.

#### Solution:

```
In [27]: import requests
import bs4
import html5lib
```

## Get all the URLs from site:

```
In [28]: def URL_from_site(url, *args):
             res = requests.get(url)
             res.raise_for_status()
             amritaSoup = bs4.BeautifulSoup(res.text,"lxml")
             type(amritaSoup)
             file = open("Amazonfile.txt","w") # This file save all URLs to Amazonfile.txt file
             for a in amritaSoup.find_all('a',href=True):
                 file.writelines('URL: '+ str(url)+ a['href']+'\n')
             file.close()
             file_in = open("Amazonfile.txt","r") # Line reads all URLs from Amazonfile.txt file
             if len(args) == 0:
                 for line in file_in:
                     print(line)
                 return
             page = []
             if len(args) != 0:
                 for line in file_in:
                     if (args[0]) in line:
                           print(line)
                         page.append(line)
                 return page
```

## **Print HTML content:**

```
In [29]: def HTML_content(url):
    url= mobile_url[0].strip('URL: \n')
    r = requests.get(url)
    soup = bs4.BeautifulSoup(r.content, 'html5lib')
    print(soup.prettify())
    return
```

#### **Get HTML text:**

# Get URLs from https://www.amazon.in/ (https://www.amazon.in/)

```
In [36]: url = 'https://www.amazon.in/'
                      URL_from_site(url)
                       URL: https://www.amazon.in//ref=nav logo (https://www.amazon.in//ref=nav logo)
                       URL: https://www.amazon.in//gp/customer-preferences/select-language/ref=topnav lang?preferencesRe
                       turnUrl=%2F (https://www.amazon.in//gp/customer-preferences/select-language/ref=topnav_lang?prefe
                       rencesReturnUrl=%2F)
                       URL: https://www.amazon.in/https://www.amazon.in/ap/signin?openid.pape.max_auth_age=0&openid.retu
                       \verb|rn_to=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ref_%3Dnav_ya\_signin&openid.identity=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ref_%3Dnav_ya\_signin&openid.identity=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ref_%3Dnav_ya\_signin&openid.identity=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ref_%3Dnav_ya\_signin&openid.identity=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ref_%3Dnav_ya\_signin&openid.identity=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ref_%3Dnav_ya\_signin&openid.identity=https%3A%2F%2Fwww.amazon.in%2F%3F_encoding%3DUTF8%26ref_%3Dnav_ya\_signin&openid.identity=https%3A%2Fwaref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_waref_ware
                       tp%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select&openid.assoc_handle=inflex&openid.mo
                       de=checkid_setup&openid.claimed_id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select
                       &openid.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0& (https://www.amazon.in/https://www.amazon.
                       in/ap/signin?openid.pape.max_auth_age=0&openid.return_to=https%3A%2F%2Fwww.amazon.in%2F%3F_encodi
                       ng%3DUTF8%26ref_%3Dnav_ya_signin&openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fide
                       ntifier select&openid.assoc handle=inflex&openid.mode=checkid setup&openid.claimed id=http%3A%2F%
                       2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select&openid.ns=http%3A%2F%2Fspecs.openid.net%2Faut
                      h%2F2.0&)
                       URL: https://www.amazon.in//gp/css/order-history?ref_=nav_orders_first (https://www.amazon.in//g
                       p/css/order-history?ref_=nav_orders_first)
```

## Get URL related to an item (mobile):

```
In [37]: mobile_url = URL_from_site(url, 'mobile')
mobile_url
```

## Get HTML content of 'mobile\_url':

```
In [38]: HTML_content(mobile_url)
                            <!DOCTYPE html>
                            <html class="a-no-js" data-19ax5a9jf="dingo" lang="en-in">
                              <!-- sp:feature:head-start -->
                               <head>
                                  <script>
                                   var aPageStart = (new Date()).getTime();
                                  </script>
                                  <meta charset="utf-8"/>
                                  <!-- sp:feature:cs-optimization -->
                                  <meta content="on" http-equiv="x-dns-prefetch-control"/>
                                  <link href="https://images-eu.ssl-images-amazon.com" rel="dns-prefetch"/>
                                  <link href="https://m.media-amazon.com" rel="dns-prefetch"/>
                                  <link href="https://completion.amazon.com" rel="dns-prefetch"/>
                                  <!-- sp:feature:aui-assets -->
                                  < link href="https://images-eu.ssl-images-amazon.com/images/I/11EIQ5IGqaL.\_RC|012LjolmrML.css, 41-11EIQ5IGqal.\_RC|012LjolmrML.css, 41-11EIQ5IGqal.\_RC|012LjolmrML.csg, 41-11EIQ5IGqal.\_RC|012LjolmrML.csg, 41-11EIQ5IGqal.\_RC|012LjolmrML.csg, 41-11
                            DO8IyHTdL.css,21qPwhPKAAL.css,01Vctty9pOL.css,017DsKjNQJL.css,0131vqwP5UL.css,41EWOO1BJ9L.css,11g
                            KzVUTNZL.css,01ElnPiDxWL.css,11bGSgD5pDL.css,01Dm5eKVxwL.css,01IdKcBuAdL.css,01y-XAlI+2L.css,01Zf
                            XnjPmmL.css,01oDR3IULNL.css,31q1y1irc5L.css,01XPHJk60-L.css,01R0k0yxPXL.css,21xVR0NtxzL.css,11gne
                            A3MtJL.css,21fecG8pUzL.css,01RddH8vm-L.css,01CFUgsA-YL.css,21AmhU6t0sL.css,11zGrJZ9D2L.css,11tRp6
```

### Get HTML text of 'mobile\_url':

```
In [39]: html_text, Text = HtML_2_Text_converter(mobile_url)
Text
```

Out[39]: "Mobile Phones: Buy New Mobiles Online at Best Prices in India | Buy Cell Phones Online - Amazon.inS kip to main content.in Hello Select your address Mobiles & AccessoriesSelect the department you want to search inMobiles & AccessoriesAll CategoriesD ealsAlexa SkillsAmazon DevicesAmazon FashionAmazon FreshAmazon PantryAppliancesApps & GamesBabyBeaut yBooksCar & MotorbikeClothing & AccessoriesCollectiblesComputers & AccessoriesElectronicsFurnitureGa rden & OutdoorsGift CardsGrocery & Gourmet FoodsHealth & Personal CareHome & KitchenIndustrial & Sci entificJewelleryKindle StoreLuggage & BagsLuxury BeautyMovies & TV ShowsMusicMusical InstrumentsOffi ce ProductsPet SuppliesPrime VideoShoes & HandbagsSoftwareSports, Fitness & OutdoorsTools & Home Imp rovementToys & GamesUnder ₹500Video GamesWatchesHello, Sign inAccount & Lists Account AllBest SellersMobilesToday's DealsFashionNew ReleasesPrime Electronics Cu **Orders** Cart stomer ServiceAmazon PayHome & KitchenComputersBooksToys & GamesSellBeauty & Personal CareCar & Moto rbikeGift CardsGrocery & Gourmet FoodsHealth, Household & Personal CareSports, Fitness & OutdoorsGif t Ideas\tBabyVideo GamesPet SuppliesAmazonBasicsCouponsKindle eBooksHome ImprovementSubscribe & Save TV & Home Entertainment Mobiles & Accessories Laptops & Accessories Audio Computer Peripherals Smart Technology Cameras Office & Stationery https://www.amazon.in/gp/goldbox/?pf Musical Instruments rd\_p=52e6a193-83f2-4e5b-acbb-6d28c918c36b&pf\_rd\_s=merchandised-search-4&pf\_rd\_t=101&pf\_rd\_i=1389401\_ 031&pf rd m=A1VBAL9TL5WCBF&pf rd r=XCCJMT5YH2TK8DP9BNTV&pf rd r=XCCJMT5YH2TK8DP9BNTV&pf rd p=52e6a19 3-83f2-4e5b-acbb-6d28c918c36bhttps://www.amazon.in/gp/goldbox/?pf\_rd\_p=7271e5cd-bd21-4eb6-8940-7ce00 6673c0d&pf\_rd\_s=merchandised-search-18&pf\_rd\_t=101&pf\_rd\_i=1389401031&pf\_rd\_m=A1VBAL9TL5WCBF&pf\_rd\_r =XCCJMT5YH2TK8DP9BNTV&pf\_rd\_r=XCCJMT5YH2TK8DP9BNTV&pf\_rd\_p=7271e5cd-bd21-4eb6-8940-7ce006673c0d1-12 (https://www.amazon.in/gp/goldbox/?pf rd p=52e6a193-83f2-4e5b-acbb-6d28c918c36b&pf rd s=merchandise d-search-4&pf rd t=101&pf rd i=1389401031&pf rd m=A1VBAL9TL5WCBF&pf rd r=XCCJMT5YH2TK8DP9BNTV&pf rd x/?pf\_rd\_p=7271e5cd-bd21-4eb6-8940-7ce006673c0d&pf\_rd\_s=merchandised-search-18&pf\_rd\_t=101&pf\_rd\_i=1  $389401031\&pf\_rd\_m=A1VBAL9TL5WCBF\&pf\_rd\_r=XCCJMT5YH2TK8DP9BNTV\&pf\_rd\_r=XCCJMT5YH2TK8DP9BNTV\&pf\_rd\_p=7$ 271e5cd-bd21-4eb6-8940-7ce006673c0d1-12) of over 70,000 results forMobiles & AccessoriesBest selleri boAt Bassheads 100 in Ear Wired Earphones with Mic(Black)by Boat123,537₹379.0 n In-Ear Headphones 0₹379.00₹999.00₹999.00FulfilledFREE Delivery on orders over ₹499.00.Details elivery by: Wednesday, March 24Details Redmi 9A (Nature Green, 2GB Ram, 32GB Storage) | 2GHz Octa -core Helio G25 Processorby Redmi20,691₹6,799.00₹6,799.00₹8,499.00₹8,499.00FulfilledFREE Delivery.De tailsIn stock on March 27, 2021.Best sellerin Electronics Redmi 9 (Sky Blue, 4GB RAM, 64GB Storag e)by Redmi17,207₹8,799.00₹8,799.00₹10,999.00₹10,999.00FulfilledFREE Delivery.Details Delivery by: Wednesday, March 24Details Samsung Galaxy M12 (Blue, 4GB RAM, 64GB Storage) 6000 mAh with 8nm Processor | True 48 MP Quad Camera | 90Hz Refresh Rateby Samsung24₹10,999.00₹10,999.00₹12, 999.00₹12,999.00FulfilledFREE Delivery.Details Delivery by: Wednesday, March Redmi 9A (Midnight Black, 2GB RAM, 32GB Storage) | 2GHz Octa-core Helio G25 Processorb 24Details y Redmi20,691₹6,799.00₹6,799.00₹8,499.00₹8,499.00FulfilledFREE Delivery.DetailsIn stock on May 2, 20 OnePlus Bullets Wireless Z in-Ear Bluetooth Earphones with Mic (Black)by OnePlus68,545₹1,999. 00₹1,999.00₹2,190.00₹2,190.00FulfilledFREE Delivery.Details Delivery by: Wedn OnePlus Bullets Wireless Z Bass Edition (Reverb Red)by OnePlus68,545₹1,99 esday, March 24Details 9.00₹1,999.00₹2,190.00₹2,190.00FulfilledFREE Delivery.Details Delivery by: We dnesday, March 24DetailsBest sellerin Smart Watches & Accessories Noise Colorfit Pro 2 Full Touch Control Smart Watch Jet Blackby Noise22,834₹2,999.00₹2,999.00₹4,999.00₹4,999.00FulfilledFREE Deliver v.Details Delivery by: Wednesday, March 24Details Boult Audio AirBass Z1 T rue Wireless Earbuds with 24H Total Playtime, Touch Controls, IPX5 Sweatproof, Low Latency for Gamin g and Voice Assistant(Black)by Boult Audio1₹1,599.00₹1,599.00₹5,999.00₹5,999.00FulfilledFREE Deliver y.DetailsIn stock on March 26, 2021. Redmi 9A (Sea Blue, 2GB Ram, 32GB Storage) | 2GHz Octa-core Helio G25 Processorby Redmi20,691₹6,799.00₹6,799.00₹8,499.00₹8,499.00FulfilledFREE Delivery.Details In stock on April 30, 2021. Redmi Note 10 (Shadow Black, 6GB RAM, 128GB Storage) - Super Amoled D isplay | 48MP Sony Sensor IMX582 | Snapdragon 678 Processorby Redmi₹13,999.00₹13,999.00FulfilledFREE Delivery.Details Delivery by: Wednesday, March 24Details pTron Tangent Lit e Bluetooth 5.0 Wireless Headphones with Hi-Fi Stereo Sound, 6Hrs Playtime, Lightweight Ergonomic Ne ckband, Sweat-Resistant Magnetic Earbuds, Voice Assistant & Mic - (Black)by PTron7,364₹649.00₹649.00 ₹1,800.00₹1,800.00FulfilledFREE Delivery.Details Delivery by: Wednesday, Marc h 24DetailsSee all resultsAvg. Customer Review4 Stars & Up& Up3 Stars & Up& Up2 Stars & Up& Up1 Star & Up& UpPay On DeliveryEligible for Pay On DeliveryAvailabilityInclude Out of StockNew ArrivalsLast 30 daysLast 90 daysSellerAppario Retail Private LtdCloudtail IndiaKhurana CommunicationSpigen India VagamaOye StuffShopMagicsTheGiftKartS.K RetailPuzzleStoreBrandsBoatRedmiSamsungOnePlusNoiseBoult Aud ioPTronDiscount10% Off or more25% Off or more35% Off or more50% Off or moreMade for Amazon BrandsMad e for AmazonDepartmentElectronicsMobiles & AccessoriesMobile AccessoriesSIM CardsSmartphones & Basic MobilesItem ConditionNewRenewedUsedAmazon PrimeDealsToday's DealsPriceUnder ₹1,000₹1,000 - ₹5,000₹5, 000 - ₹10,000₹10,000 - ₹20,0000ver ₹20,000 Unlimited FREE fast delivery, video streaming & more Pri me members enjoy unlimited free, fast delivery on eligible items, video streaming, ad-free music, ex clusive access to deals & more. Get startedBack to topGet to Know UsAbout UsCareersPres s ReleasesAmazon CaresGift a SmileConnect with UsFacebookTwitterInstagramMake Money with UsSell on A mazonSell under Amazon AcceleratorAmazon Global SellingBecome an AffiliateFulfilment by AmazonAdvert ise Your ProductsAmazon Pay on MerchantsSee More Make Money with UsLet Us Help YouCOVID-19 and Amazo nYour AccountReturns Centre100% Purchase ProtectionAmazon App DownloadAmazon Assistant DownloadHelpE nglishChoose a language for shopping.AustraliaBrazilCanadaChinaFranceGermanyItalyJapanMexicoNetherla ndsSingaporeSpainUnited Arab EmiratesUnited KingdomUnited StatesAbeBooks Books, art & collectiblesAm azon Web Services Scalable Cloud Computing ServicesAudible Download Audio BooksDPReview Digital Phot ographyIMDb Movies, TV & Celebrities\xa0Shopbop Designer Fashion Brands\tAmazon Business Everything

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