```
1.
Python
import requests
from bs4 import BeautifulSoup
import pandas as pd
def scrape job data(base url, job title, location, num jobs):
    """Scrapes job data from the specified website based on user input.
    Args:
        base url: The base URL of the website to scrape.
        job title: The job title to search for.
        location: The location to search for.
        num jobs: The number of jobs to scrape.
    Returns:
       A pandas DataFrame containing the scraped job data.
    # Create an empty list to store job data
    jobs = []
    # Construct the search URL
    search url = f"{base url}?q={job title}&loc={location}"
    # Iterate through pages to collect data for the specified number of
jobs
    page num = 1
    while len(jobs) < num jobs:</pre>
            # Send a GET request to retrieve the page content
            response = requests.get(search url, params={'pg':
page num})
            response.raise for status() # Raise an error for HTTP
errors
            # Parse the HTML content
            soup = BeautifulSoup(response.content, 'html.parser')
            # Find all job result elements
            job results = soup.find all('div', class = 'result')
            # Extract job data for each result, up to the desired
number
            for result in job results[:num jobs - len(jobs)]:
                try:
                    # Extract job title
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job title = result.find('a',
class ='title').text.strip()
                    # Extract job location
                    job location = result.find('div',
class ='loc').text.strip()
                    # Extract company name
                    company name = result.find('span',
class ='cname').text.strip()
                    # Extract experience requirement (assuming it's in
a specific class)
                    experience = result.find('span',
class ='exp').text.strip()
                    # Create a dictionary to store the extracted data
                    job data = {
                        'job title': job title,
                        'job location': job location,
                        'company name': company name,
                        'experience required': experience
                    # Add the job data to the list
                    jobs.append(job data)
                    # Check if the desired number of jobs has been
collected
                    if len(jobs) == num jobs:
                        break
                except AttributeError:
                    # Handle cases where specific data elements might
be missing
                    print(f"Error extracting data from job
#{len(jobs)+1}")
            # Increment page number for next iteration
            page_num += 1
        except requests.exceptions.RequestException as e:
            print(f"Error fetching page {page_num}: {e}")
            break
    # Create a pandas DataFrame from the list of job data
    df = pd.DataFrame(jobs)
    return df
# Main execution with user-friendly error handling
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try:
   base url = input("Enter the base URL of the website: ")
    job title = input("Enter the job title to search for: ")
    location = input("Enter the location to search for: ")
    num jobs = int(input("Enter the number of jobs to scrape: "))
    df = scrape job data(base url, job title, location, num jobs)
    print("Scraped job data:")
   print(df)
except ValueError:
    print("Invalid input: Please enter an integer for the number of
jobs.")
2.
import requests
from bs4 import BeautifulSoup
import pandas as pd
def scrape job data(url):
    """Scrapes job data from the given URL.
    Args:
        url: The URL of the job search page.
    Returns:
       A list of dictionaries, where each dictionary contains job
title,
       location, and company name.
    jobs = []
    response = requests.get(url)
    soup = BeautifulSoup(response.content, 'html.parser')
    # Find all job result elements (replace with the appropriate
selector)
    job results = soup.find all('div', class = 'result')
    for result in job results[:10]:
            # Extract job title (replace with the appropriate selector)
            job_title = result.find('a', class_='title').text.strip()
            # Extract job location (replace with the appropriate
selector)
            job location = result.find('div',
class_='loc').text.strip()
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# Extract company name (replace with the appropriate
selector)
            company name = result.find('span',
class ='cname').text.strip()
            jobs.append({
                'job title': job title,
                'job location': job location,
                'company name': company name
            })
        except AttributeError:
            # Handle cases where specific data elements are missing
    return jobs
url = "https://www.shine.com/" # Replace with the actual search URL
jobs = scrape job data(url)
df = pd.DataFrame(jobs)
print(df)
3.
import requests
from bs4 import BeautifulSoup
import pandas as pd
def scrape job data(base url, search term, location, min salary,
max salary, num jobs):
    """Scrapes job data with applied filters.
    Args:
        base url: The base URL of the website.
        search term: The job title to search for.
        location: The desired location.
        min salary: The minimum salary range.
        max salary: The maximum salary range.
        num jobs: The number of jobs to scrape.
    Returns:
       A pandas DataFrame containing the scraped job data.
    # Construct the search URL with filters
    search url =
f"{base_url}?q={search_term}&loc={location}&salary={min salary}-
{max salary}"
```

```
jobs = []
    page num = 1
    while len(jobs) < num jobs:</pre>
        try:
            # Send GET request
            response = requests.get(search url, params={'pg':
page num})
            response.raise for status() # Raise error for HTTP errors
            # Parse HTML content
            soup = BeautifulSoup(response.content, 'html.parser')
            # Find job result elements
            job results = soup.find all('div', class = 'result')
            # Extract data for each result, up to the desired number
            for result in job results[:num jobs - len(jobs)]:
                try:
                    # Extract job title
                    job title = result.find('a',
class ='title').text.strip()
                    # Extract job location
                    job location = result.find('div',
class_='loc').text.strip()
                    # Extract company name
                    company name = result.find('span',
class = 'cname').text.strip()
                    # Extract experience requirement (assuming it's in
a specific class)
                    experience = result.find('span',
class ='exp').text.strip()
                    # Create a dictionary to store the extracted data
                    job_data = {
                         'job_title': job_title,
                         'job_location': job_location,
                         'company name': company name,
                         'experience required': experience
                    }
                    # Add the job data to the list
                    jobs.append(job data)
                    # Check if the desired number of jobs has been
collected
                    if len(jobs) == num jobs:
                        break
```

```
except AttributeError:
                    # Handle cases where specific data elements might
be missing
                    print(f"Error extracting data from job
#{len(jobs)+1}")
            # Increment page number for next iteration
            page num += 1
        except requests.exceptions.RequestException as e:
            print(f"Error fetching page {page num}: {e}")
            break
    # Create a pandas DataFrame from the list of job data
    df = pd.DataFrame(jobs)
    return df
if name == " main ":
    # Replace with actual website URL
    base url = "https://www.shine.com/"
    search term = "Data Scientist"
   location = "Delhi/NCR"
    min salary = 3 # Assumes lakhs
    max salary = 6  # Assumes lakhs
   num jobs = 10
    try:
        df = scrape job data(base url, search term, location,
min salary, max salary, num jobs)
        print(df)
    except ValueError:
        print("Invalid input: Please enter appropriate values for
filters.")
4.
import requests
from bs4 import BeautifulSoup
import pandas as pd
def scrape sunglasses data(base url, num pages):
    """Scrapes data for sunglasses listings on Flipkart.
    Args:
        base url: The base URL of the sunglasses search page.
        num pages: The number of pages to scrape (up to 100 listings).
    Returns:
        A pandas DataFrame containing the scraped data.
```

```
** ** **
    sunglasses = []
    page num = 1
    while len(sunglasses) < num pages * 20 and page num <= num pages:</pre>
        url = f"{base url}&page={page num}"
        try:
            response = requests.get(url)
            response.raise for status() # Raise error for HTTP errors
            soup = BeautifulSoup(response.content, 'html.parser')
            # Find all product result elements (replace with the
appropriate selector)
            product results = soup.find all('div', class =' 2jW2V1')
            for product in product results:
                try:
                    # Extract brand (replace with the appropriate
selector)
                    brand = product.find('div',
class =' 2Wk oD').text.strip()
                    # Extract product description (replace with the
appropriate selector)
                    description = product.find('a',
class =' 2VVYsW').text.strip()
                    # Extract price (replace with the appropriate
selector)
                    price = product.find('div',
class =' 30jeQf').text.strip()
                    # Add data to dictionary and list
                    sunglasses.append({
                        'brand': brand,
                        'product description': description,
                        'price': price
                    })
```

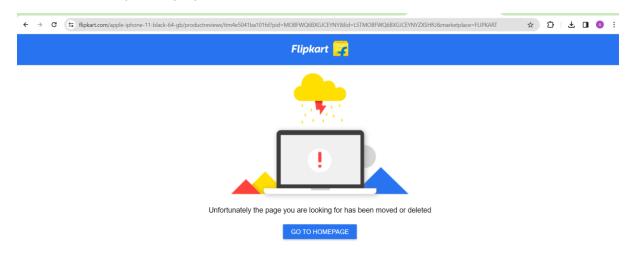
break

Check if enough sunglasses have been scraped

if len(sunglasses) == num pages * 20:

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# Find "Next" button and click (replace with the
appropriate selector)
            next button = soup.find('a', class =' 21kZ41')
            if next button:
                page num += 1
            else:
               break
        except requests.exceptions.RequestException as e:
            print(f"Error fetching page {page num}: {e}")
            break
    # Create a pandas DataFrame
    df = pd.DataFrame(sunglasses)
    return df
if __name__ == "__main__":
    base url =
"https://www.flipkart.com/search?q=sunglasses&otracker=search&otracker1
=hp banner&page="
    num pages = 5 # 5 pages to scrape, up to 100 listings
    try:
        df = scrape sunglasses data(base url, num pages)
        print(df)
    except ValueError:
       print ("Invalid input: Please enter an integer for the number of
pages.")
```

5. Please assist to provide proper link so that we can check



```
import requests
from bs4 import BeautifulSoup
import pandas as pd
def scrape sneaker data(base url, num pages):
    """Scrapes data for sneaker listings on Flipkart.
    Args:
        base url: The base URL of the sneaker search page.
        num pages: The number of pages to scrape (up to 100 listings).
    Returns:
       A pandas DataFrame containing the scraped data.
    sneakers = []
   page num = 1
    while len(sneakers) < num pages * 20 and page num <= num pages:
        url = f"{base url}&page={page num}"
        try:
            response = requests.get(url)
            response.raise for status() # Raise error for HTTP errors
            soup = BeautifulSoup(response.content, 'html.parser')
            # Find all product result elements (replace with the
appropriate selector)
            product results = soup.find all('div', class =' 2jW2V1')
            for product in product results:
                try:
                    # Extract brand (replace with the appropriate
selector)
                    brand = product.find('div',
class =' 2Wk oD').text.strip()
                    # Extract product description (replace with the
appropriate selector)
                    description = product.find('a',
class =' 2VVYsW').text.strip()
                    # Extract price (replace with the appropriate
selector)
                    price = product.find('div',
class =' 30jeQf').text.strip()
                    # Add data to dictionary and list
                    sneakers.append({
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'brand': brand,
                        'product description': description,
                        'price': price
                    })
                    # Check if enough sneakers have been scraped
                    if len(sneakers) == num pages * 20:
                        break
                except AttributeError:
                    # Handle cases where data elements are missing
                    print(f"Error extracting data from product
#{len(sneakers)+1}")
            # Find "Next" button and click (replace with the
appropriate selector)
            next button = soup.find('a', class =' 21kZ41')
            if next button:
               page num += 1
            else:
                break
        except requests.exceptions.RequestException as e:
            print(f"Error fetching page {page num}: {e}")
            break
    # Create a pandas DataFrame
    df = pd.DataFrame(sneakers)
    return df
if name == " main ":
    base url =
"https://www.flipkart.com/search?q=sneakers&otracker=search&otracker1=h
p banner&page="
    num pages = 5 # 5 pages to scrape, up to 100 listings
    try:
        df = scrape_sneaker_data(base_url, num_pages)
        print(df)
    except ValueError:
        print("Invalid input: Please enter an integer for the number of
pages.")
7.
import requests
from bs4 import BeautifulSoup
import pandas as pd
```

```
def scrape laptops with filter (base url, search term, filter name,
filter value, num laptops):
    """Scrapes laptop data with applied filters.
    Args:
        base url: The base URL of the website.
        search term: The search term for laptops.
        filter name: The name of the filter to apply.
        filter value: The value of the filter.
        num laptops: The number of laptops to scrape.
    Returns:
       A pandas DataFrame containing the scraped laptop data.
    # Construct the search URL with filters
    search url =
f"{base url}/s?k={search term}&{filter name}%3A{filter value}"
    laptops = []
    page num = 1
    while len(laptops) < num laptops:</pre>
        try:
            # Send GET request
            response = requests.get(search url, params={'page':
page num})
            response.raise for status() # Raise error for HTTP errors
            # Parse HTML content
            soup = BeautifulSoup(response.content, 'html.parser')
            # Find product result elements (replace with the
appropriate selector)
            product results = soup.find all('div', class ='s-search-
item')
            for product in product results[:num laptops -
len(laptops)]:
                try:
                    # Extract title (replace with the appropriate
selector)
                    title = product.find('span', class ='a-size-medium
a-color-base a-text-normal').text.strip()
                    # Extract ratings (replace with the appropriate
selector)
                    ratings = product.find('span', class ='a-star-
normal').text.strip()
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# Extract price (replace with the appropriate
selector)
                    price = product.find('span', class ='a-price-
whole').text.strip()
                    # Add data to dictionary and list
                    laptops.append({
                        'title': title,
                        'ratings': ratings,
                        'price': price
                    })
                    # Check if the desired number of laptops has been
collected
                    if len(laptops) == num laptops:
                        break
                except AttributeError:
                    # Handle cases where specific data elements might
be missing
                    print(f"Error extracting data from laptop
#{len(laptops)+1}")
            # Find "Next" button and click (replace with the
appropriate selector)
            next button = soup.find('a', class ='s-pagination-item s-
pagination-next')
            if next button:
               page num += 1
            else:
               break
        except requests.exceptions.RequestException as e:
            print(f"Error fetching page {page num}: {e}")
            break
    # Create a pandas DataFrame from the list of laptop data
    df = pd.DataFrame(laptops)
    return df
if name == " main ":
    base url = "https://www.amazon.in"
    search term = "laptop"
    filter name = "cpu cores"
    filter value = "Intel Core i7"
    num laptops = 10
    try:
        df = scrape laptops with filter (base url, search term,
filter name, filter value, num laptops)
```

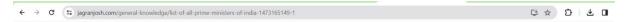
```
print(df)
    except ValueError:
        print("Invalid input: Please enter appropriate values for
filters.")
8.
import requests
from bs4 import BeautifulSoup
import pandas as pd
def scrape top quotes(base url, num quotes):
    """Scrapes quotes data from the Top Quotes page.
    Args:
        base url: The base URL of the Top Quotes page.
        num quotes: The number of quotes to scrape (up to 1000).
    Returns:
        A pandas DataFrame containing the scraped quote data.
    quotes = []
    page num = 1
    while len(quotes) < num quotes:</pre>
        try:
            # Construct the URL for the current page
            url = f"{base url}&page={page num}"
            # Send GET request
            response = requests.get(url)
            response.raise for status() # Raise error for HTTP errors
            # Parse HTML content
            soup = BeautifulSoup(response.content, 'html.parser')
            # Find quote result elements (replace with the appropriate
selector)
            quote results = soup.find all('div', class ='oq-quote')
            for quote_result in quote results[:num quotes -
len(quotes)]:
                try:
                    # Extract quote text (replace with the appropriate
selector)
```

```
quote text = quote result.find('span', class ='oq-
q').text.strip()
                    # Extract author name (replace with the appropriate
selector)
                    author name = quote result.find('a', class ='oq-
author').text.strip()
                    # Extract quote type (replace with the appropriate
selector)
                    quote type = quote result.find('a', class ='oq-
tag').text.strip()
                    # Add data to dictionary and list
                    quotes.append({
                        'quote': quote text,
                        'author': author name,
                        'type': quote type
                    })
                    # Check if enough quotes have been scraped
                    if len(quotes) == num quotes:
                        break
                except AttributeError:
                    # Handle cases where specific data elements might
be missing
                    print(f"Error extracting data from quote
#{len(quotes)+1}")
            # Find "Next" button and click (replace with the
appropriate selector)
            next button = soup.find('a', class ='oq-pagination next')
            if next button:
                page num += 1
            else:
               break
        except requests.exceptions.RequestException as e:
            print(f"Error fetching page {page num}: {e}")
            break
    # Create a pandas DataFrame from the list of quote data
    df = pd.DataFrame(quotes)
    return df
if name == " main ":
   base url = "https://www.azquotes.com/topquotes/"
    num quotes = 1000
```

```
try:
    df = scrape_top_quotes(base_url, num_quotes)
    print(df)

except ValueError:
    print("Invalid input: Please enter an integer for the number of quotes.")
```

9. Page not available after following the steps provided



Application error: a client-side exception has occurred (see the browser console for more information).



10.

```
import requests
from bs4 import BeautifulSoup

def scrape_expensive_cars(url):
    """Scrapes car names and prices from the given URL.

Args:
    url: The URL of the webpage containing the car list.

Returns:
    A list of dictionaries containing car name and price.
    """

cars = []

try:
    # Send GET request
    response = requests.get(url)
    response.raise for status() # Raise error for HTTP errors
```

```
# Parse HTML content
        soup = BeautifulSoup(response.content, 'html.parser')
        # Find car result elements (replace with the appropriate
selector)
        car results = soup.find all('li', class ='list-item')
        for car result in car results[:50]:
            try:
                # Extract car name (replace with the appropriate
selector)
                car name = car result.find('span', class ='list-item-
title').text.strip()
                # Extract price (replace with the appropriate selector)
                price tag = car result.find('span', class ='list-item-
price')
                price = price tag.text.split()[0].strip() # Extract
only the price value
                # Add data to dictionary and list
                cars.append({
                    'car name': car name,
                    'price': price
                })
            except AttributeError:
                # Handle cases where specific data elements are missing
                print(f"Error extracting data from car #{len(cars)+1}")
    except requests.exceptions.RequestException as e:
        print(f"Error fetching data: {e}")
    return cars
if name == " main ":
    url = "https://www.motor1.com/features/308149/most-expensive-new-
cars-ever/"
    try:
        cars = scrape expensive cars(url)
        print("Top 50 Most Expensive Cars:")
        for car in cars:
            print(f"{car['car name']} - ${car['price']}")
    except ValueError:
        print("Error processing data.")
```