

QA Tools Training Program:

Module-4 Assessment

1. Write a python script using selenium for automating the process of searching for a specific product on Amazon and extracting information about the first few results. Specifically, you need to:

1. Open Amazon's homepage.
2. Search for a specific product (e.g., "laptop").
3. Extract information about the first 5 search results, including:

Product title

Product price (if available)

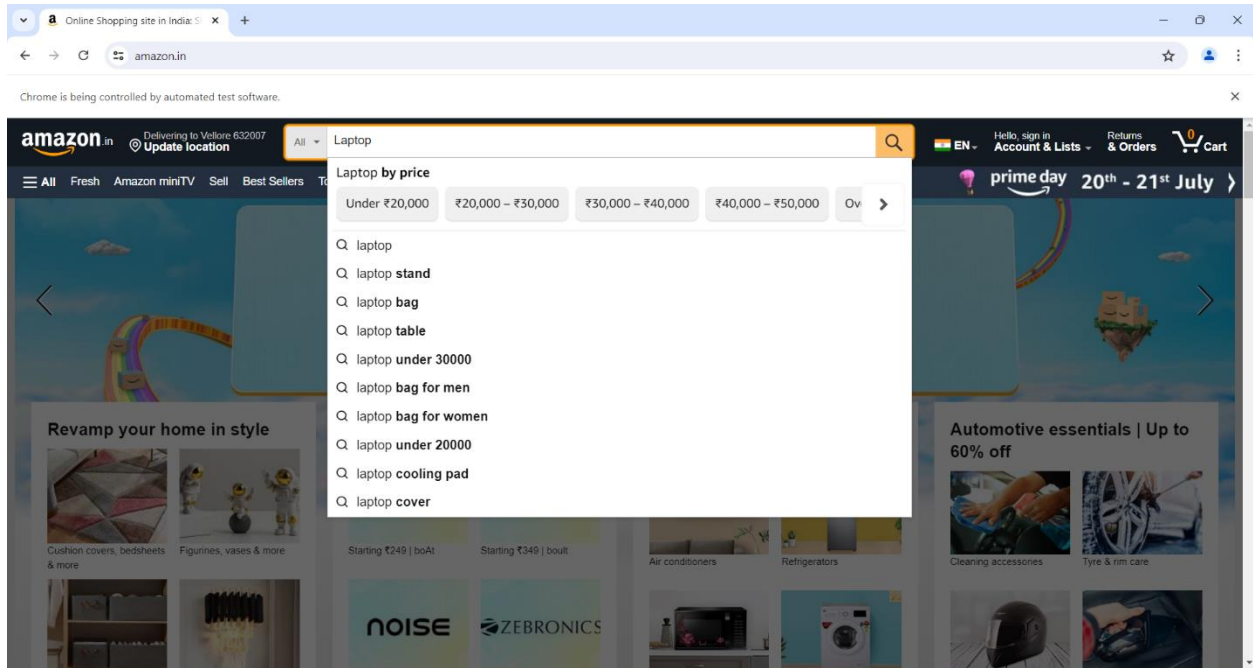
Product rating (if available)

Number of reviews (if available)

4. Print this information in a structured format.

Solution:

```
task1.py >...
1  import time
2  from selenium import webdriver
3  from selenium.webdriver.common.by import By
4  driver=webdriver.Chrome()
5  driver.maximize_window()
6  driver.get("https://www.amazon.in/")
7
8  item=driver.find_element(By.ID,"twotabsearchtextbox")
9  item.send_keys("Laptop")
10 time.sleep(0)
11 driver.find_element(By.CLASS_NAME,"nav-right").click()
12 product_title = []
13 product_price = []
14 product_rating = []
15 product_no_of_reviews=[]
16 # Find all product titles (first 5)
17 product_titles = driver.find_elements(By.XPATH, '//span[@class="a-size-medium a-color-base a-text-normal"]')
18 # Find all product prices (first 5)
19 product_prices = driver.find_elements(By.XPATH, '//span[@class="a-price"]')
20 # Find all product ratings (first 5)
21 product_ratings = driver.find_elements(By.XPATH, '//span[@class="a-icon-alt"]')
22 product_no_of_reviews=driver.find_elements(By.XPATH, '//span[@class="a-size-base s-underline-text"]')
23 print("")
24 # Extract and print information about the first 5 products
25 for i in range(5):
26     title = product_titles[i].text if i < len(product_titles) else "N/A"
27     price = product_prices[i].text if i < len(product_prices) else "N/A"
28     rating = product_ratings[i].get_attribute("innerHTML") if i < len(product_ratings) else "N/A"
29     reviews= product_no_of_reviews[i].text if i < len(product_no_of_reviews) else "N/A"
30     print(f"    Product {i+1}: " + "{")
31     print(f"        Title: {title}")
32     print(f"        Price: {price}")
33     print(f"        Rating: {rating}")
34     print(f"        Review: {reviews}")
35     print("    ")
36 print("")
37
```



```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS E:\QA\myenv> & e:/QA/myenv/Scripts/python.exe e:/QA/myenv/task1.py

DevTools listening on ws://127.0.0.1:55060/devtools/browser/48d59ef5-4738-4eec-9394-50daee1247a
{
  Product 1: {
    Title: Acer Aspire Lite 12th Gen Intel Core i7-1255U Premium Metal Laptop (Windows 11 Home/16 GB RAM/512 GB SSD) AL15-52, 39.62cm (15.6") Full HD Display, Metal Body, Steel Gray, 1.59 Kg
    Price: ₹51,990
    Rating: 4.8 out of 5 stars.
    Review: 430
  }
  Product 2: {
    Title: Apple 2023 MacBook Pro (16-inch, M3 Max chip with 16-core CPU and 40-core GPU, 48GB Unified Memory, 1TB) - Space Black
    Price: ₹3,74,990
    Rating: 3.8 out of 5 stars
    Review: 11
  }
  Product 3: {
    Title: HP Laptop 15s, 12th Gen Intel Core i5-1235U, 15.6-inch (39.6 cm), FHD, 16GB DDR4, 512GB SSD, Intel Iris Xe graphics, Backlit KB,MSO,Thin & Light, Dual speakers (Win 11, Silver, 1.69 kg), fq5330TU
    Price: ₹52,525
    Rating: 3.4 out of 5 stars
    Review: 642
  }
  Product 4: {
    Title: Lenovo IdeaPad Slim 1 Intel Core Celeron N4020 14" HD Thin and Light Laptop (8GB/512GB SSD/Windows 11 Home/Office 21/1Yr Warranty/Cloud Grey/1.3kg) 82V6009LIN
    Price: ₹25,990
    Rating: 4.0 out of 5 stars
    Review: 5
  }
  Product 5: {
    Title: (Refurbished) Dell Latitude 5270 6th Gen Intel Core i5 Thin & Light HD Laptop (8 GB DDR4 RAM/256 GB SSD/12.3" (31.8 cm) HD/Windows 11/MS Office/Wi-Fi/BT/Intel UHD Graphics)
    Price: ₹14,498
    Rating: 3.2 out of 5 stars
    Review: 558
  }
}
PS E:\QA\myenv>
```

2. Create a new data in any of the open source server (for example: <https://dummy.restapiexample.com>), modify them and delete them using Postman.

Solution:

The image displays two screenshots of the Postman application interface, demonstrating API interactions.

Top Screenshot: POST Request

- URL:** `https://reqres.in/api/users`
- Method:** `POST`
- Body (raw JSON):**

```
1 {
2   "name": "Soundariya",
3   "id": "1282"
4 }
```
- Test Results:** Status: 201 Created, Time: 361 ms, Size: 922 B. The response body (Pretty view) is: `{"name": "Soundariya", "id": "1282", "createdAt": "2024-07-15T06:23:29.921Z"}`

Bottom Screenshot: PUT Request

- URL:** `https://reqres.in/api/users/034`
- Method:** `PUT`
- Body (raw JSON):**

```
1 {
2   "name": "Soundariya",
3   "id": "1282",
4   "role": "intern"
5 }
```
- Test Results:** Status: 200 OK, Time: 371 ms, Size: 990 B. The response body (Pretty view) is: `{"name": "Soundariya", "id": "1282", "role": "intern", "updatedAt": "2024-07-15T06:39:37.938Z"}`

HomeWorkspacesAPI Network

Search Postman

Invite

Upgrade

OverviewPUT https://reqres.in/api/userDELETE https://reqres.in/api/user/934

SaveShare

DELETEhttps://reqres.in/api/users/934Send

ParamsAuthorizationHeaders (6)BodyScriptsSettingsCookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

BodyCookiesHeaders (13)Test Results

Status: 204 No ContentTime: 354 msSize: 800 BSave as example

PrettyRawPreviewVisualizeText

1

OnlineFind and replaceConsole

PostbotRunnerStart ProxyCookiesVaultTrash