

Lab Activity – 6

Submission Format: Submit a zip file named RollNumber_Lab6.zip (ex: 20171148_Lab6.zip) containing all the files. Also submit a readme and mention your assumptions.

Question 1.

Abhishek has started losing interest in his studies as well as in his business too. The only thing left in his life is his friend, Amandeep. She knows that only thing that can cheer him up are books. So, she goes to amazon.in and start searching for bestseller books for him. Now, she doesn't want to take any chance, so she decides to buy best books available. As Amandeep is not from programming background, you need to help her to scrap the list of 100 bestseller books available on amazon.in

URL: Amazon.in - <https://www.amazon.in/gp/bestsellers/books/>

Output example:

| Name | URL | Author | Price | Number of Ratings | Average Ratings |
|---------------------|---|---------------|----------|-------------------|--------------------|
| One Arranged Murder | https://www.amazon.in/One-Arranged-Murder-Chetan-Bhagat/dp/1542094135/ref=zg_bs_books_1?_encoding=UTF8&psc=1 | Chetan Bhagat | ₹ 141.00 | 774 | 4.2 out of 5 stars |

Note: If any field is missing for a particular book, mention “Not available” without quotes. Everything is case-sensitive. Also, you need to include header (Name, URL, Author, Price....) in the output file (Ensure your csv file should be “;” (semicolon separated)).

You need to create folder of name “**question 1**” containing the following files:

```
question 1
|— in_bestseller.py
|— output
   |— in_book.csv
```

You can use following python modules to complete the task:

- BeautifulSoup - <https://www.crummy.com/software/BeautifulSoup/bs4/doc/>

- Mechanize - http://mechanize.readthedocs.io/en/latest/browser_api.html
- Requests - <http://docs.python-requests.org/en/master/>
- CSV - <https://docs.python.org/3/library/csv.html>

Question 2.

Write a Python function to check whether a string is a pangram or not.

Note: Pangrams are words or sentences containing every letter of the alphabet at least once.

Input: "The quick brown fox jumps over the lazy dog"

Output: "YES" (without quotes)

Input: "Python is not a programming language"

Output: "NO" (without quotes)

Question 3.

Write a Python program that sum the length of the names of a given list of names and list itself after removing the names that starts with a lowercase letter. (**Must Use lambda function**)

Input: ['sally', 'Dylan', 'rebecca', 'Diana', 'Joanne', 'keith']

Output:

16

['Dylan', 'Diana', 'Joanne']

Question 4.

Write a Python program which accepts a sequence of comma separated 4-digit binary numbers as its input and print the numbers that are divisible by 5 in a comma separated sequence.

Input: 0100,0011,1010,1001,1100,1001

Output: 1010