

Programming Challenge

Go to the following website:

http://courtnic.nic.in/supremecourt/casestatus_new/caseno_new.asp

You will see this kind of form:



The screenshot shows a web form titled "Case Status" with a red header and footer. The header contains the text "Case Status" in white. The footer contains the text "Supreme Court of India" in white. The main content area is white and contains the following elements:

- A label "Case Type:" followed by a dropdown menu showing "Writ Petition (Civil)".
- A label "Case No. :" followed by a text input field.
- A label "Year" followed by a colon and a dropdown menu showing "2016".
- Two buttons: "Submit" and "Reset".

This website provides information about a case filed in Supreme Court of India. For ex: Select 'Writ Petition (Civil)' in 'Case Type' dropdown, enter 13 in 'Case No.', select 2015 in 'Year' dropdown and press 'Submit' button. You will get the following page (we will call this 'Case details page'):

Writ Petition (Civil) **13/2015** Case History & Order(s)

STATUS **DISPOSED**

Cause Title
 SUPREME COURT ADVOCATES-ON-RECORD ASSOCIATION AND ANR.
 Vs.
 UNION OF INDIA

Advocate Details
Pet. Adv. MR. SURYA KANT
Res. Adv. MR. DEVASHISH BHARUKA

Subject Category
 FIVE JUDGES BENCH MATTER

Listing Details
 Date of Disposal 16/12/2015

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Now your **Task** is:

Write a function in python called 'get_case_status' which takes the following parameters:

- 'case_type': Integer
 You are selecting some 'case type' in the dropdown [ex: SLP (Civil), Civil Appeal, Writ Petition (Criminal) etc.] but when the form is submitted, behind the curtains, an integer is being posted to the server (*You can verify this using [Postman](#)*).
 'SLP (Civil)' is actually 0, 'SLP (Criminal)' is 1, 'Civil Appeal' is 5 and so on. So this 'case_type' is an integer that will represent the actual case type.
- 'case_num': Integer
 This is the 'Case No.' that you entered in the form.
- 'year': Integer
 This is the 'Year' that you selected in the form.

Based on the input parameters, 'get_case_status' should fetch and parse/scrape the case details page and return a single dictionary with the following keys:

- 'is_disposed': Boolean

In the example that we saw [Writ Petition (Civil) 13/2015], in the case details page, you will see that it says 'Status - Disposed'. In this case 'is_disposed' will be True.

If the case details page shows 'Status' as anything other than 'Disposed', 'is_disposed' will be False.

For example: see for case Writ Petition (Civil) 510/2005 (Case no. 510 and Year 2005)

- 'petitioner': String

In the case details page of the first example, you can see a section 'Cause Title'. In this section the first name is the 'petitioner' i.e. for this particular example 'petitioner' will be 'SUPREME COURT ADVOCATES-ON-RECORD ASSOCIATION AND ANR.'.

- 'respondent': String

In the 'Cause Title' section the second name (after the 'Vs.') is the 'Respondent' i.e. for the example 'respondent' will be 'UNION OF INDIA'

- 'pet_advocate': String

In the section 'Advocate Details', 'Pet. Adv.' is the 'pet_advocate' i.e. For the example 'pet_advocate' is 'MR. SURYA KANT'

- 'res_advocate': String

In the section 'Advocate Details', 'Res. Adv.' is the 'res_advocate' i.e. For the example 'res_advocate' is 'MR. DEVASHISH BHARUKA'

- 'converted_case': Dictionary

In some cases, you will find a field 'The Case is Converted to' [for example in SLP (Criminal) 7575/2015, SLP (Civil) [CC] 1691/2014, SLP (Criminal) 182/2013]. If the field is present in a case, 'converted_case' should be a dictionary with three keys: 'case_num', 'year' and 'case_type' ('case_type' should be integer, using all the three keys, it should be possible to call get_case_status again).

If the field is absent, then 'converted_case' will be an empty dictionary.

Submit a single file named 'case_status.py' which should contain the function 'get_case_status'.

Note:

- Use only BeautifulSoup and requests for fetching and scraping
- Please follow the '[PEP 0008](#)' coding style guidelines.
- Please make your code as readable as possible, use extensive comments, use meaningful variable names (wherever applicable)
- Your code should be as robust as possible (use error handling wherever applicable)