**Maulana Azad National Institute of Technology**

**Python Project**

**Codeforces File Automation**

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CSE 1

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Project Details:

It is a python automation project that is used to reduce the time taken to submit the code in the competitive coding site Codeforces.

It scrapes the contest website using various functions in prewritten libraries. The libraries can be used to write even more complicated functions. My project accepts commands in the windows terminal (powershell) to maintain an ease of usage and time efficient interpretation of the code to upkeep the sole purpose for why the project was made. This is done using the “sys” library. Then it requests the website given in the user command by using the “requests” library, which inputs the source code of the website in the program in the raw form. Then using the the “Beautiful Soup” library the program scrapes the website source code to look for the relevant information in the webpage. Then after finding the necessary information the necessary files are created in the folder allocated to the project. This is done using the “os” library.

Features implemented till date:

* Web-Scraping
* File and directory creation
* Automatically opening the first problem webpage

Why I chose this Project:

I chose this project because this is going to help in building my codeforces rating in the contests. Which in turn in going to be benefiting me in building up my resume and letting me outside quite a considerable amount of people.

Python Libraries used:

* sys
* os
* requests
* webbrowser
* bs4
* shutil

Suggestions to be implemented for end term presentation:

* Comparative output for the execution of the code.
* Penalty for executing the code more than once.