

Bajaj Health Programming Challenge

JAVA - Qualifier 1

You need to create a Java application that parses a JSON named 'input.json', present within the project, of the format:

```
{
  "institute_name": "xyz",
  "student": {
    "first_name": "",
    "roll_number": ""
  }
}
```

The application should traverse the JSON and pick the value of 'first_name' and 'roll_number'.

The application will produce one output:

MD5 Hash of the string concatenated value of the following: the value of the key first_name and roll_number. Generate an MD5 hash of the concatenated string.

***Ensure that First name and roll number should be small case only**

MD5_HASH(first_name + roll_number)

Note: Keep your **first name and roll number** in all small case and without spaces. Don't include Middle name

Eg. If your first name and roll number is Sam and 24035000046 respectively, then the output should be the result of:

Md5(sam + 24035000040) => c719733517bfbdad3b8504213a7f3c96

Store the output in a **output.txt** file inside you project directory, upload the project link as well as the output.txt file to the form provided. Ensure the output filename is in small case.

output.txt file will have only one line as output, that is for example:
c719733517bfbdad3b8504213a7f3c96

Steps to Implement

1. Read and Parse JSON File: Use a JSON parsing library to read the JSON file.
2. Traverse JSON : to find the values of the keys first_name and roll_number.
3. Generate the hash of the following string after concatenating the
 - a. first_name
 - b. roll_number,
4. The format of the output will be **hash string**.
5. Store the output (hashed string) at output.txt file, and result in github with the source code. (Git hub Repository should be public and should contain the complete project directory with output.txt and input.json)
6. Add github link of the project and output file to the submission form.

Note:

- After completing the code, submit your response with appropriate details in the given form <https://forms.office.com/r/S63WupHCF2>
- Make sure the correct github repository link with the code is shared as well. The output file should be uploaded in the same repository and the downloadable public raw url to the file should be added to the form response. Example jar url on github: (<https://github.com/test/testrepo/raw/main/output.txt>)
- Please ensure to add the downloadable "RAW link" of the output file in Github, not viewable link. Check by clicking the link and see if it downloads automatically.
- Input file name should be **'input.json'** and output file name should be **'output.txt'**