Problem

Using **object-oriented concepts**, create a CLI tool that accepts a string and does the following to it:

- converts the string to uppercase and outputs it to stdout.
- converts the string to alternate upper and lower case and outputs it to stdout.
- creates a CSV file from the string by making each character a column in the CSV and then output "CSV created!" to stdout.

Make sure the code unit-testable and extendable. We would like to see a piece of code as you would do on your daily task.

Sample Input

hello world

Sample Output

HELLO WORLD hEllo wOrLd CSV created!

Note:

- a CSV file is created on the root directory which containing the following: h,e,l,l,o, ,w,o,r,l,d
- Please do not disclose this assessment questions to others or post online.

FAQ

1. What do you need to do?

Write a program or application to solve the given problem with the unit test.

Prepare setup guide on how to execute the solution and unit test in the ReadMe file.

2. How complicated is this assessment?

Generally, this assessment can be solved within 4-8 hours for an experienced developer.

3. When is the deadline to send the solution?

Please complete and send us the solution for this problem within 1-week time. If you are on tight schedule and unable to make it, please inform us before the deadline.

4. How to submit the solution?

You may send us via Github, cloud storage like Google Drive, Dropbox, One Drive etc or email attachment.

5. Any restriction on the programming language, tools, library, or framework?

Please feel free to use any third-party library, framework, or tools. Our preferred language is PHP, but you may use any languages to showcase your problem-solving skills.

6. What are we looking for in the solution?

- Problem solving skills Logical & critical thinking, the ability to apply the object-oriented concept or design pattern if needed.
- Testable code the application of unit test and different test cases
- Maintainable code easy to understand, extendable code, clean code with best practise implementation.
- Ability to handle unforeseen circumstance exception handling, defensive programming
- Paying attentions to details
- Freedom to impress