# 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

# FAQ

1. **What do you need to do?**

Write a program or application to solve the given problem.

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

1. **How complicated is this assessment?**

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

1. **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.

1. **How to submit the solution?**

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

1. **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.

1. **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