Here we have our first test fragment:

`EulerIsMyFriend ==>` Here is First test

$$asdf \quad asdf \tag{1}$$
$$asdf \quad asdf \tag{2}$$

- Here we print the second frag:

`SomethingElse ==>` Or, anything else like: $\quad \begin{matrix} a & test & to\ show\ off \\ what\ happens & with & writetofile \end{matrix}$

- Here's the third test with a number in it:

`ThirdTest223 ==>` this is third test

And Here is an example of using a fragment more than once.

`EulerIsMyFriend ==>` Here is First test

$$asdf \quad asdf \tag{3}$$
$$asdf \quad asdf \tag{4}$$

If you want to set the counter for the equation numbers you can do that too, with `\setcounter{equation}{0}`, and the same equations numbers will be used.

`EulerIsMyFriend ==>` Here is First test

$$asdf \quad asdf \tag{1}$$
$$asdf \quad asdf \tag{2}$$

====

Now we see what happens if you call for a name that isn't defined:

(!! There is no fragment `==> Mistake <==` maybe run LaTeX on source file again?)