SCENARIO

The application contains a simple DOM based cross site scripting vulnerability in the blog search box functionality which uses **document.write** function to write data out to the page and that function is called with data from **location.search** which we can control using the website URL but the application uses innerHTML to modify HTML’s inner content’s div tag, so we will try to exploit it by injecting some payload containing malicious script in the comment box.

**PROCEDURE**

1. Go to the vulnerable web application.
2. Open the element inspector tab and got to debugger tab in that.
3. Now, being in the debugger tab we can see some files there, then select the file named  **(index)/?search=sa** and in that file look for script tags.
4. Now in the script tags we can see a line of code like:

**var query = (newURLSearchParams(window.location.search)).get('search');**

By looking at the string we can easily make out that the application is getting the **search** parameter from the URL.

1. So now, we will try to inject a payload into that field but first we need to get out of those tags in order to force the application to execute whatever we need.
2. We closed the colon and bracket first and then we will put an image tag to use onerror function and we’ll get the alert we wanted.

**PAYOAD**

/?search=');<img src=1 onerror=alert("Hey!")>

**REMEDIATION**