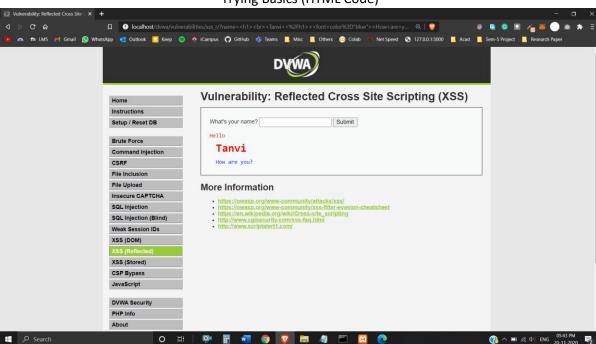
# Lab-12 Cryptography and Network Security

Name: Tanvi Penumudy (E18CSE187)

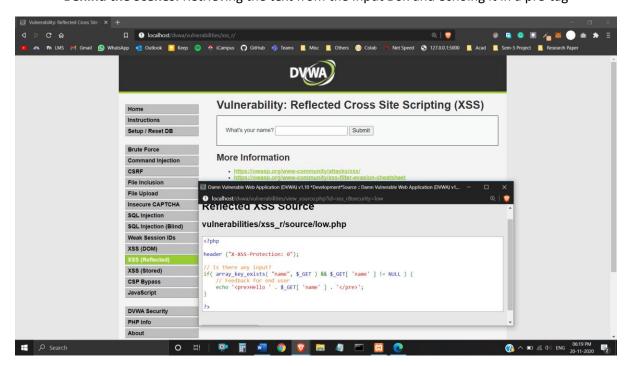
**Objective:** To Perform Reflected Cross-Site Scripting (XSS) Attack on the damn vulnerable web application (DVWA). Set the security level "Low, Medium, High" to inject malicious scripts into the web application.



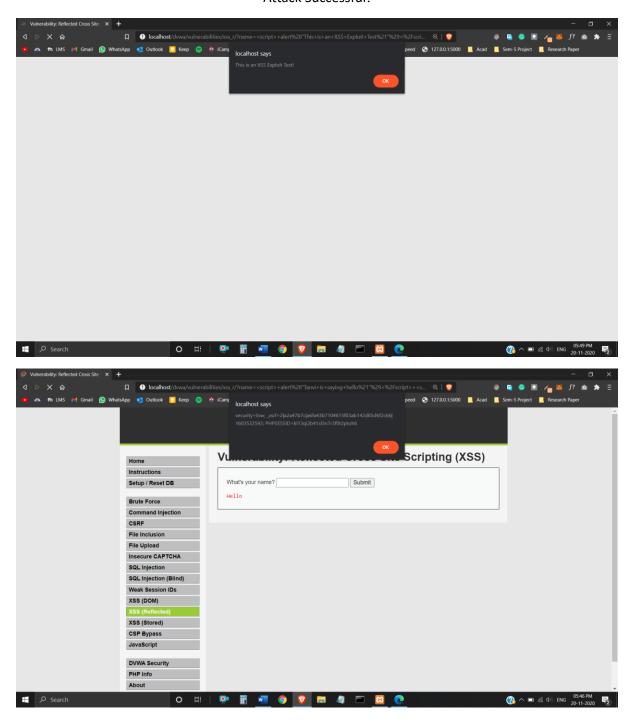
Trying Basics (HTML Code)

Security Level: Low

Behind the Scenes: Retrieving the text from the Input Box and echoing it in a pre-tag

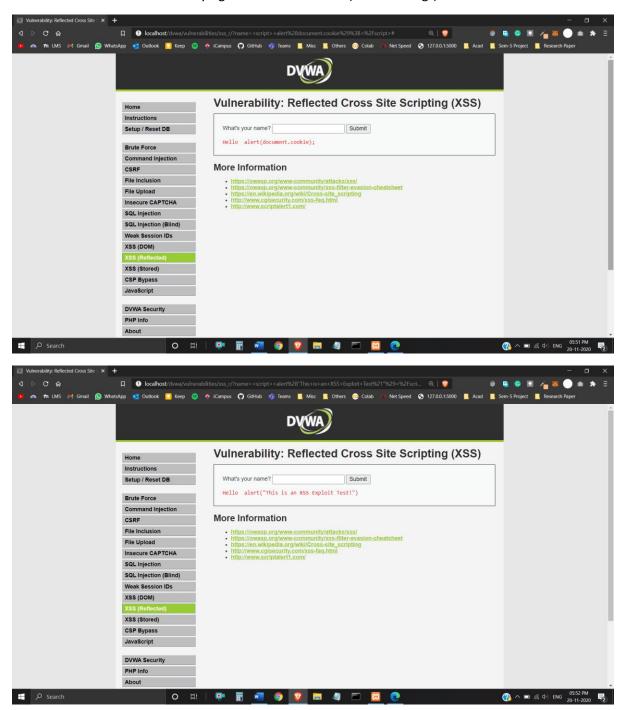


#### Attack Successful!

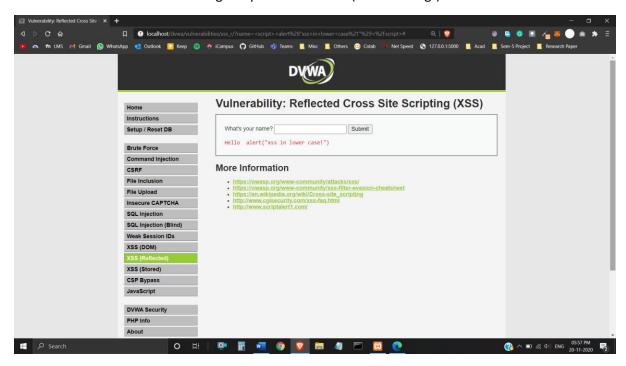


### Security Level: Medium

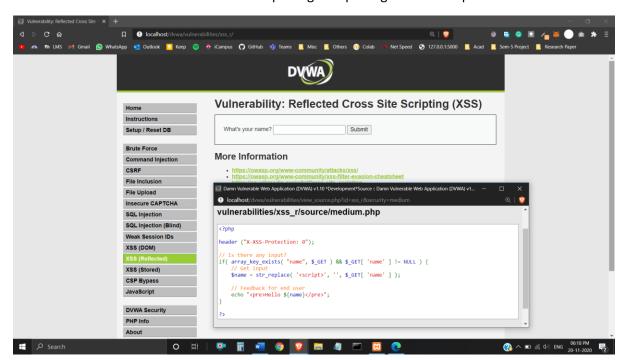
Trying earlier mechanisms (Not Working!)



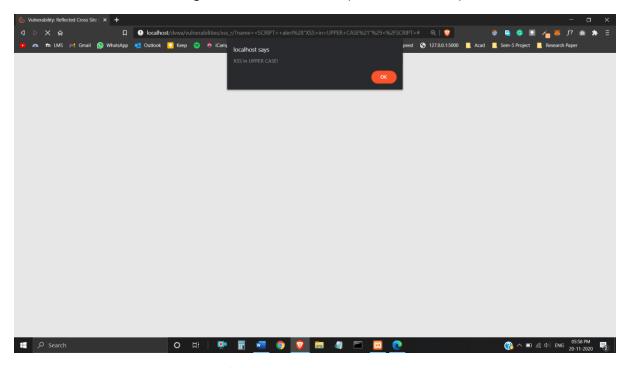
### Using 'script' in lower case (Not Working!)



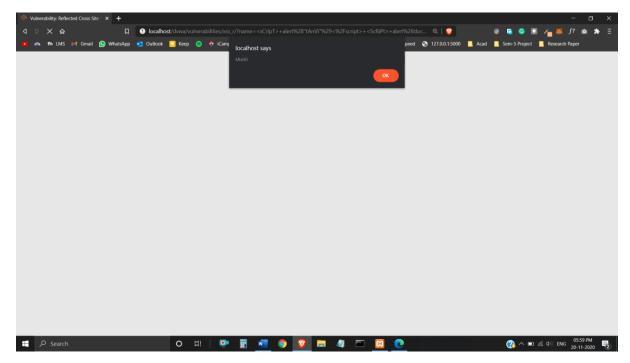
Behind the Scenes: Replacing <script> tag with blank space

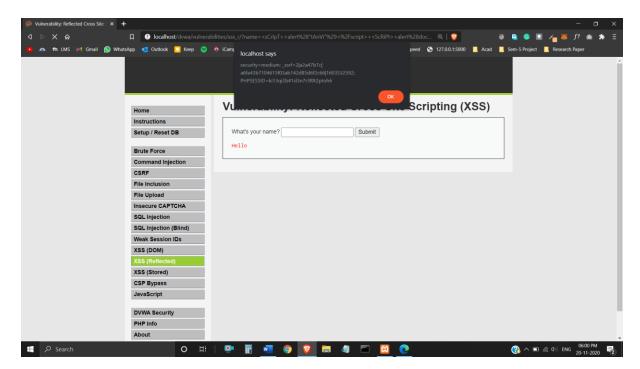


## Using 'SCRIPT' in UPPER CASE (Attack Successful!)



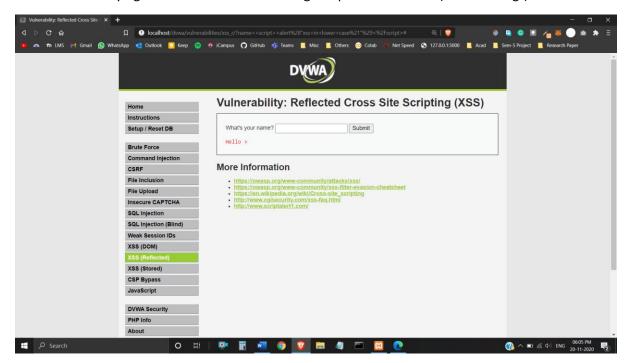
Using 'ScRiPt'/'sCrIpT' in MiXeD cAsE (Attack Successful!)



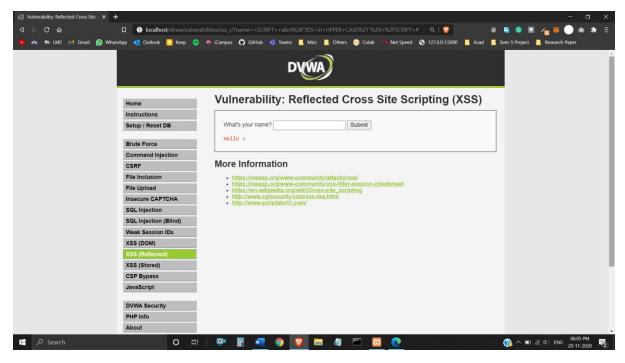


Security Level: High

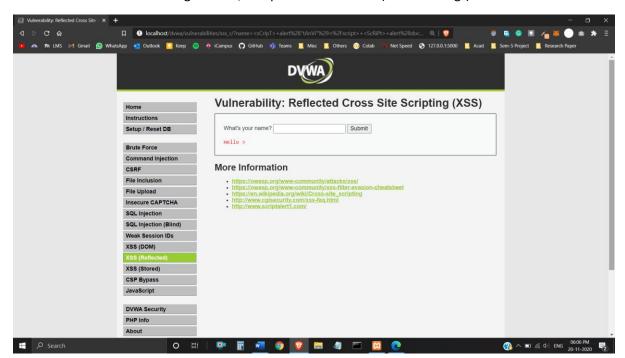
Trying earlier mechanisms – Using 'script' in lower case (Not Working!)



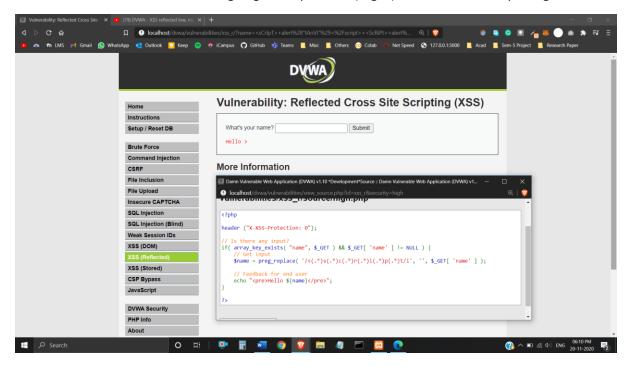
#### Using 'SCRIPT' in UPPER CASE (Not Working!)



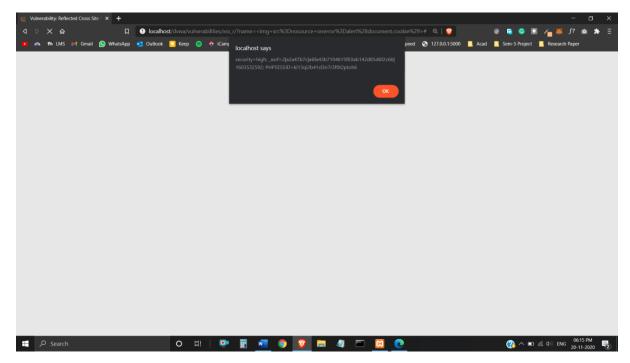
Using 'ScRiPt'/'sCrIpT' in MiXeD cAsE (Not Working!)



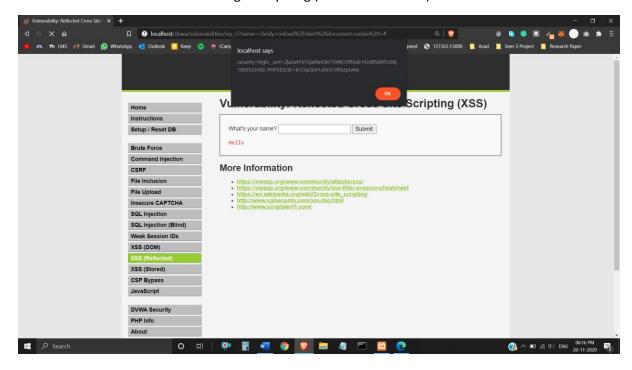
### Behind the Scenes: Using Regular Expression (regex) to detect the <script> tag



Using <img> tag (Attack Successful!)



## Using <body> tag (Attack Successful!)



Hence, successfully performed Reflected Cross-Site Scripting (XSS) Attack on DVWA in 'Low, Medium and High' Security Levels.