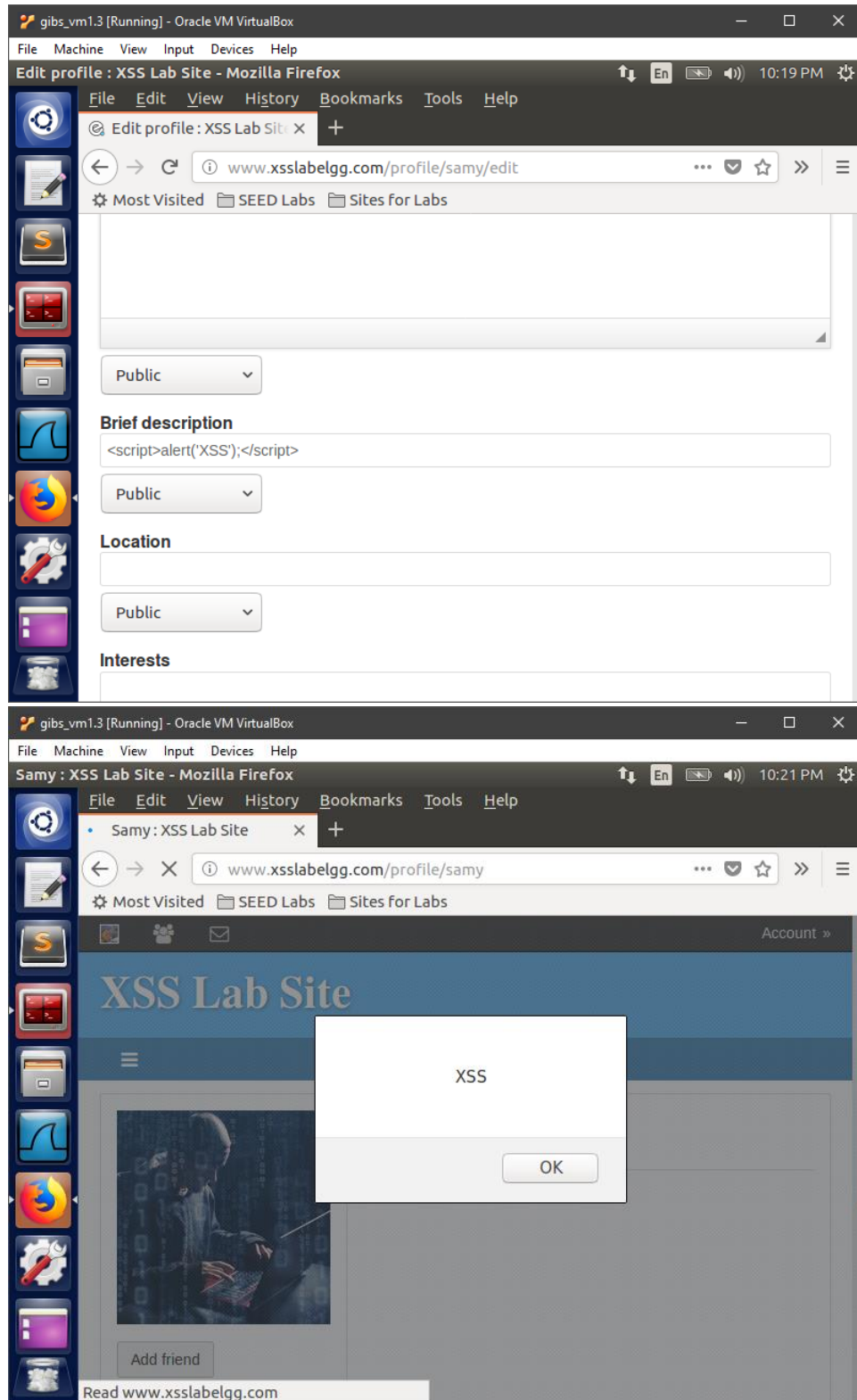
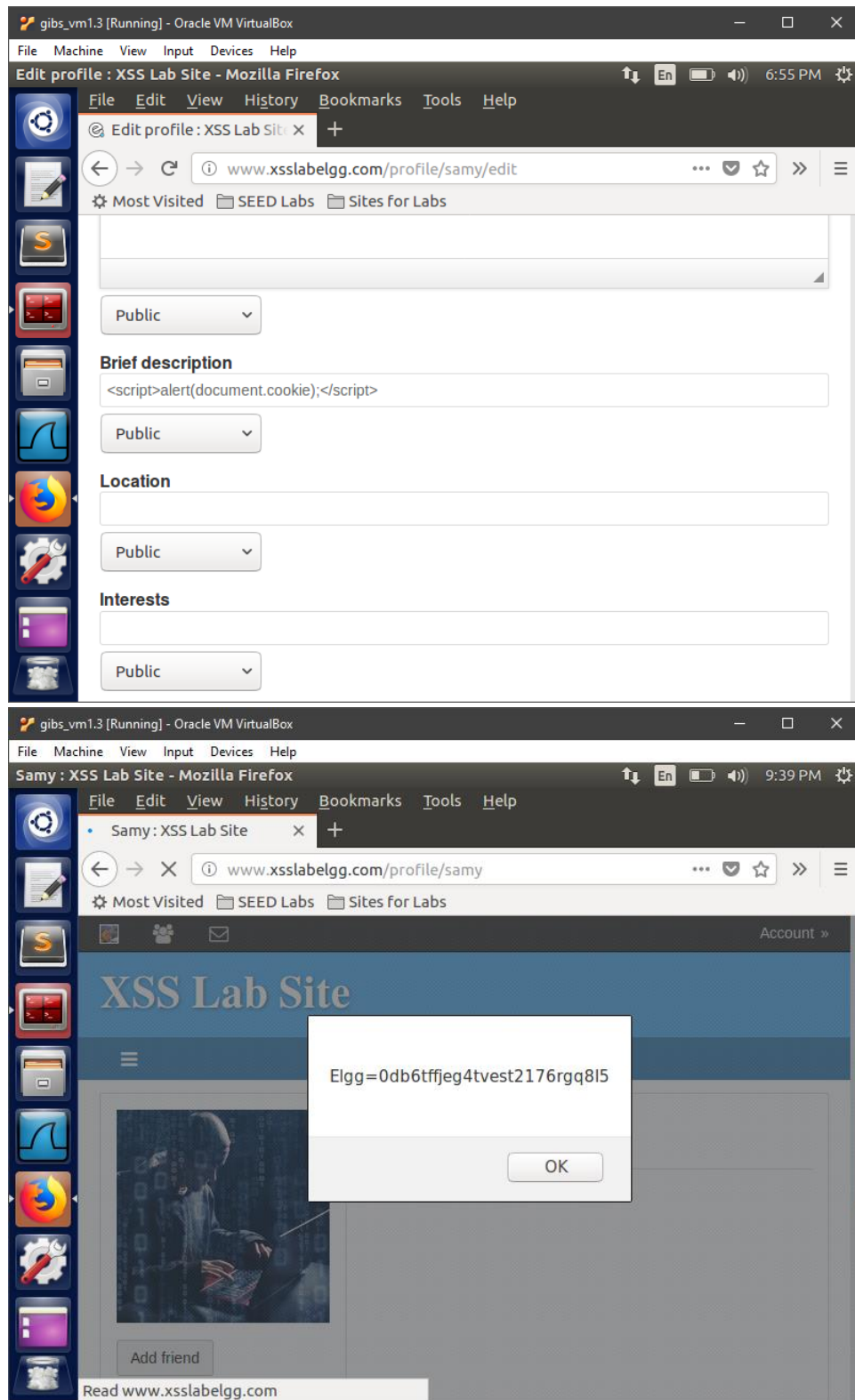


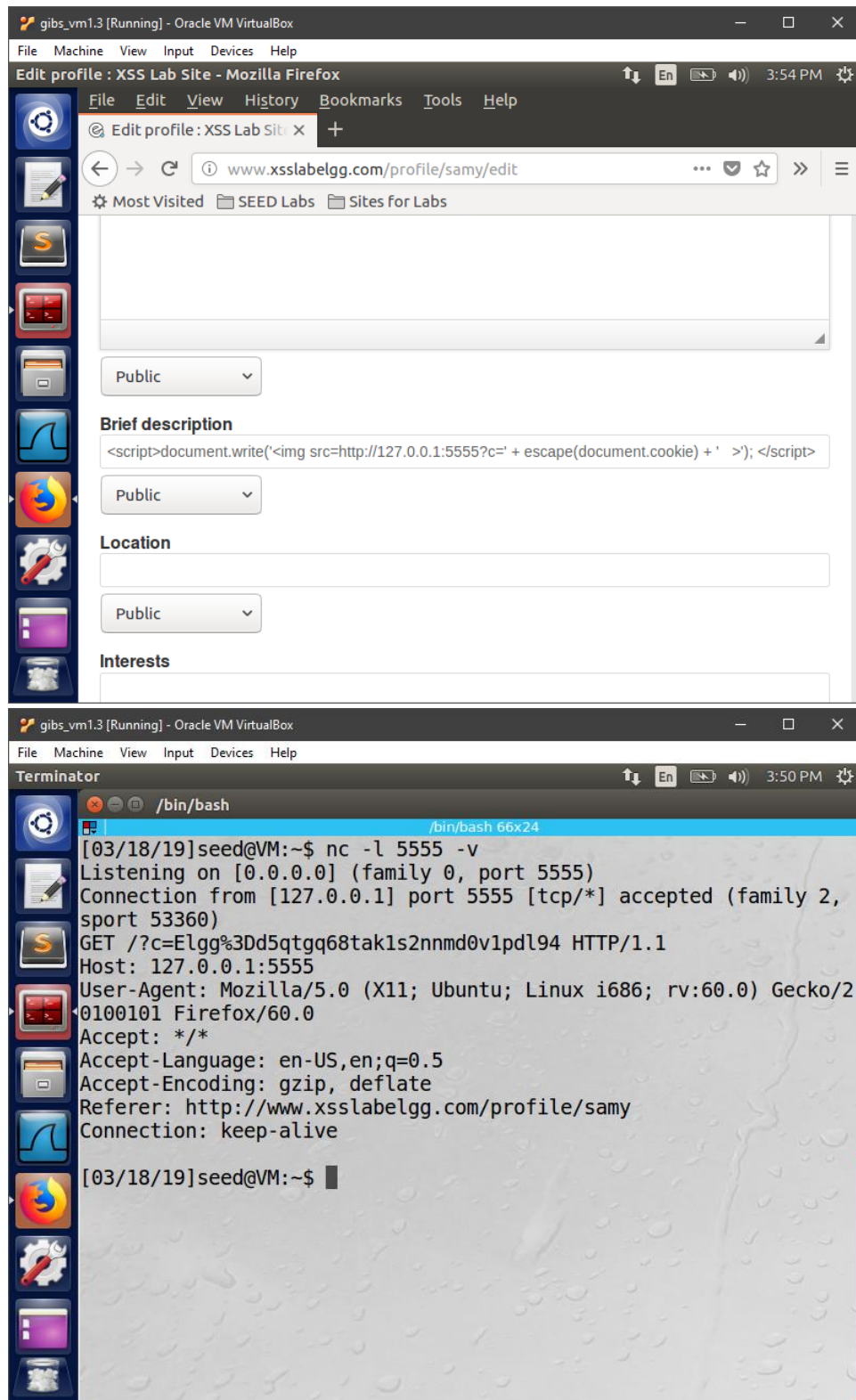
Task 1:



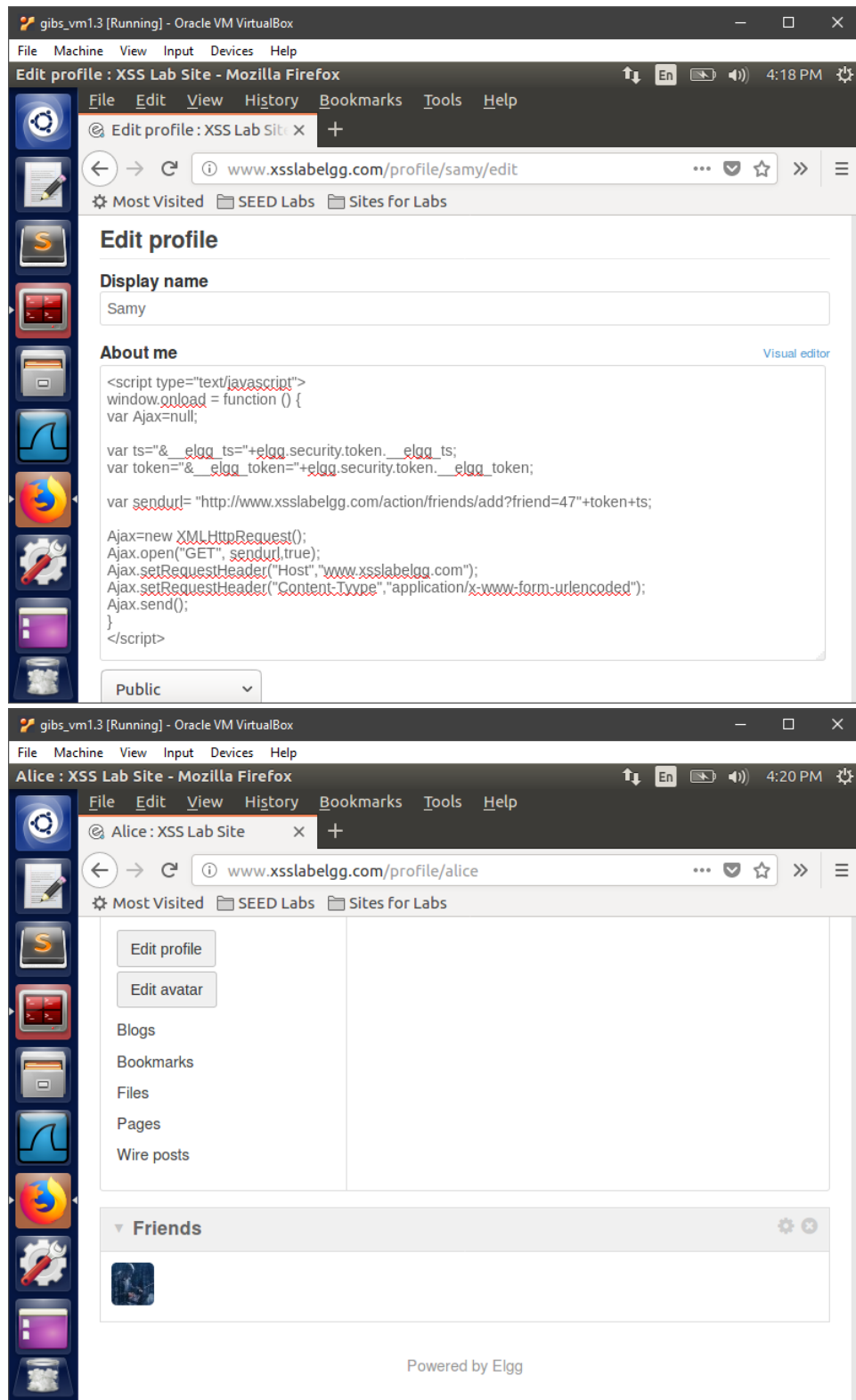
Task 2:



Task 3:



Task 4:



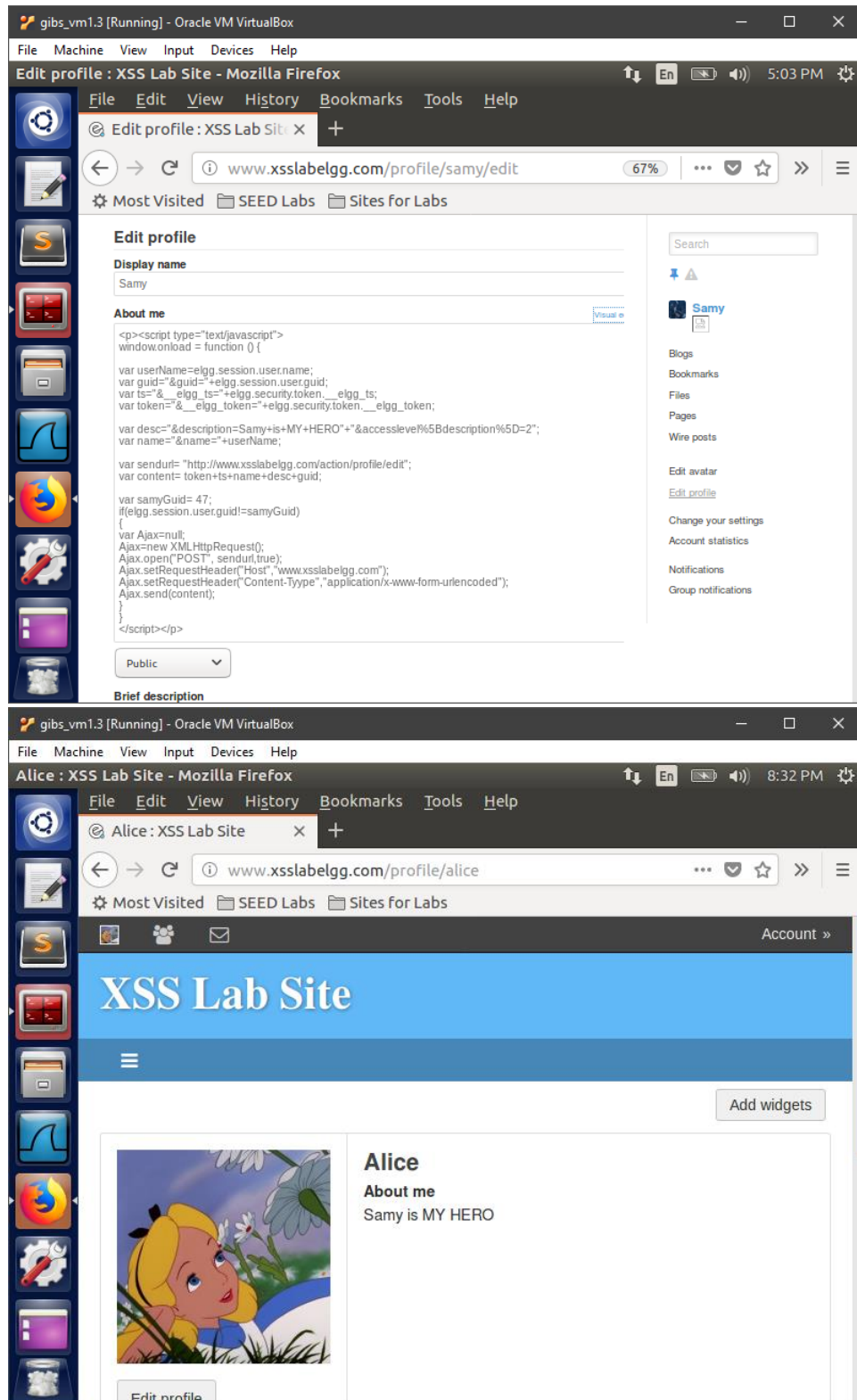
Question 1: Explain the purpose of Lines 1 and 2, why are they needed?

Answer: They are parameters in the URL They are the countermeasures against CSRF attacks. They are page specific, so they cannot be hard-coded. They are set based on the page.

Question 2: If the Elgg application only provide the Editor mode for the “About Me” field, i.e., you cannot switch to the Text mode, can you still launch a successful attack?

Answer: Yes. The issue is, if the javascript code is written in a text editor, it will not be interpreted as plain text, so changes will need to be made. In short, it will be more difficult.

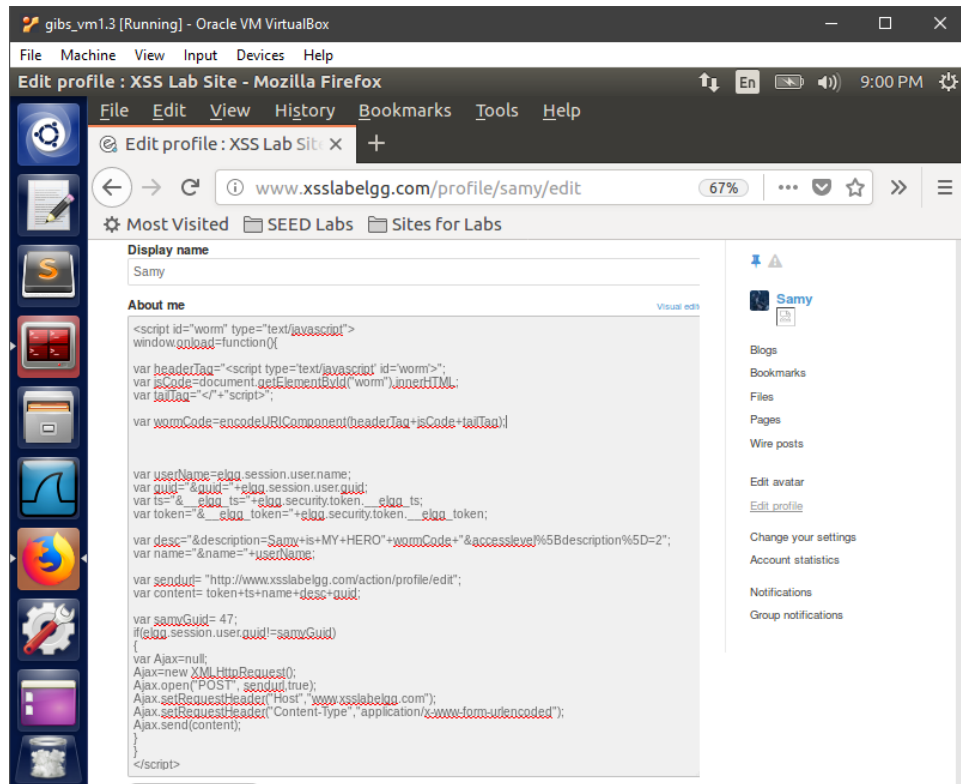
Task 5:

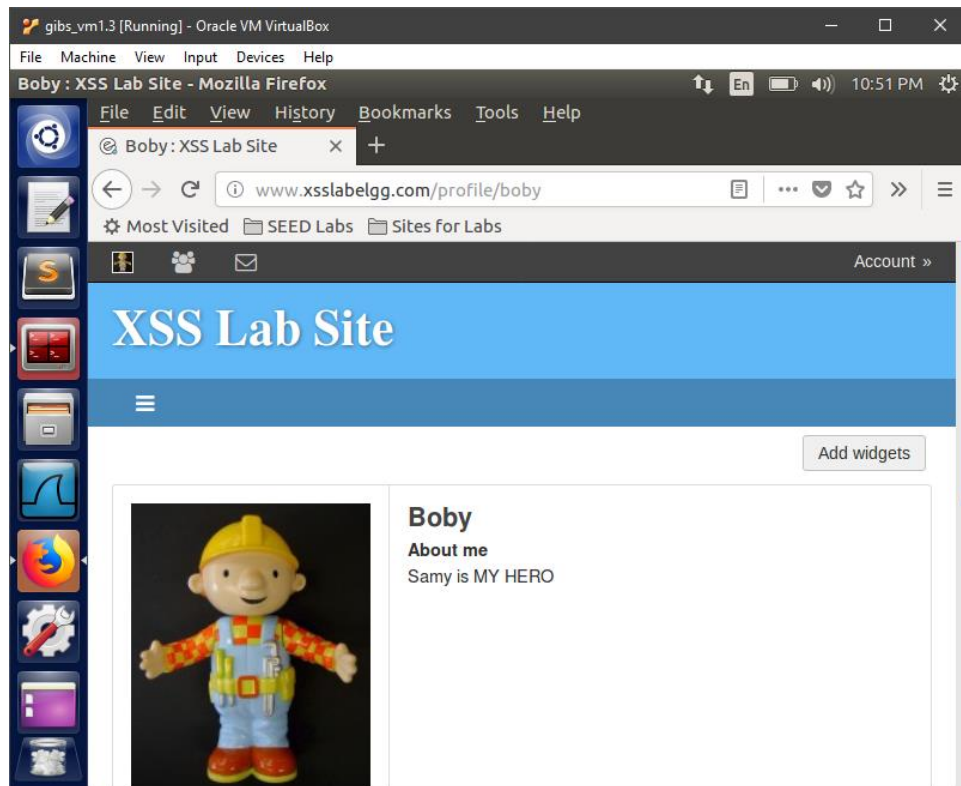


Question 3: Why do we need Line 1? Remove this line, and repeat your attack. Report and explain your observation.

Answer: This line makes it so nothing happens to Samy when he looks at his own profile. If you remove it, then the code in the “About Me” section gets replaced with “Samy is MY HERO,” rendering the attack useless.

Task 6:

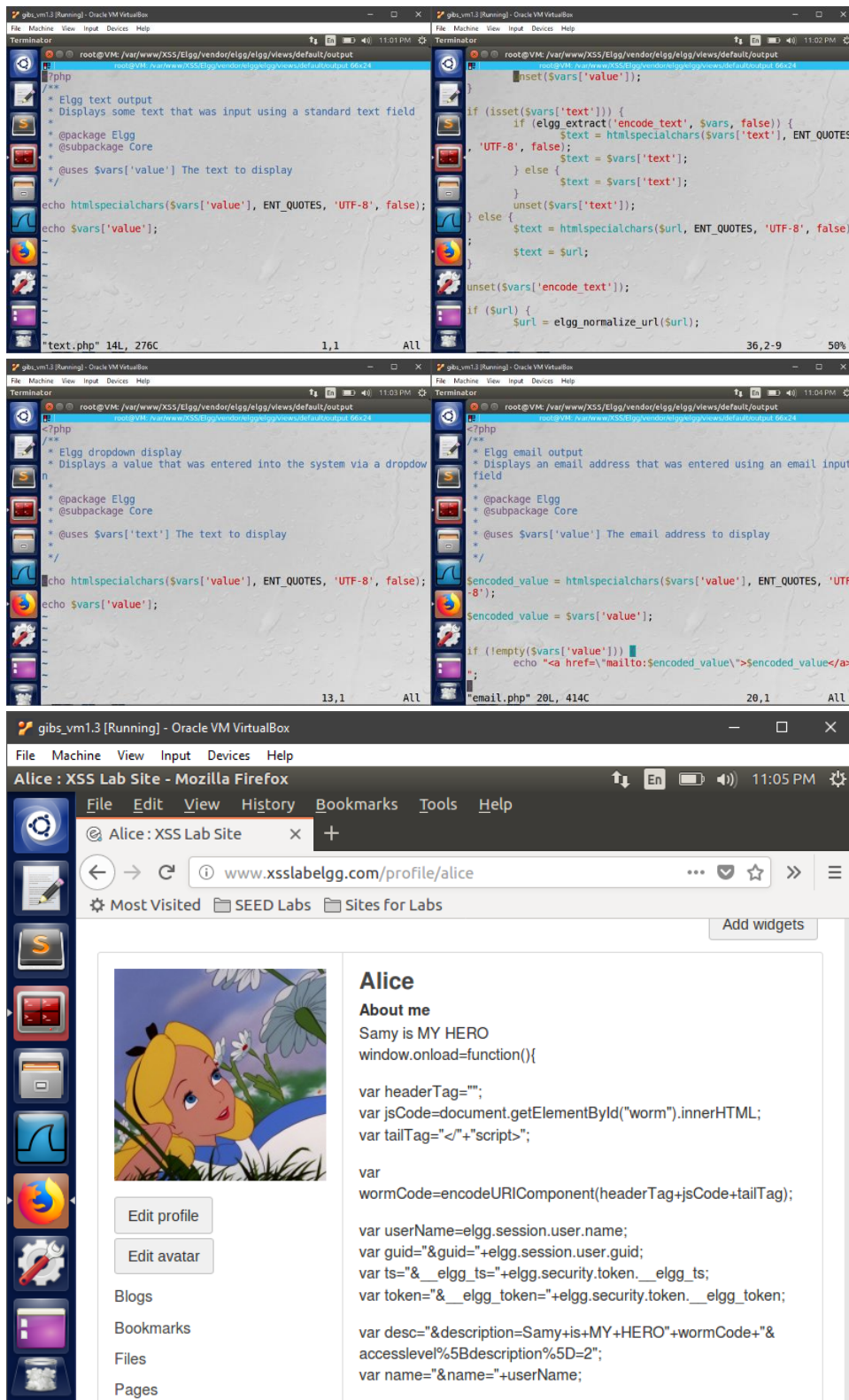




Task 7:



The above image shows what happens when we visit a victim after we activate the HTMLawed countermeasure. As one can see, the “About Me” shows all of the code, rather than just “Samy is MY HERO.”



The above image shows what happens when we visit a victim after we activate both countermeasures. As one can see, we again see the “About Me” shows all of the code, rather than just “Samy is MY HERO.” I am not sure if there is more to be seen upon close inspection of the account, but at a glance there is no difference between one countermeasure and both.