Challenge – Tojan Horse

(credits: G. Crea, student at the 2nd year of the MsC in Cybersecurity)

Summer 2009. All your friends already bought tickets for the latest Green Day concert, but your parents won't lend you any money! This was your ONE CHANCE to make out with that [insert favored gender here] you like so much!
Now, you could work to earn that dough, but you could also be a very clever kid and spy on your parents as they put in their credit card details!
How hard can it be, you have root access to their pc after all, and they buy a lot of stuff online, every time putting in the credit card data all over again, because they don't trust websites to safely store that!
The most important bit of data in there is the CVC, a 3-digits code that's supposed to stay secret. You know that when they're gonna put the CC data in, all that stuff will be visible on screen. So how about… Taking a screenshot when they type in 3 digits in a row? That should work! Put it on a hidden folder, and come back to it later, they're gonna be none the wiser!

Write a python script capable of taking a screenshot when the user types 3 digits in a row. This script should be non-interactive (the user shouldn't be writing directly into the terminal the script runs on) and it should save its screenshots in a hidden folder.

As a proof you did it, you should upload one of the screenshots taken by the logger (and I may ask you to show me its execution).

Hints:

- There are python libraries for reading from keyboard (e.g. keyboard:).
- There are python libraries for taking screenshots (e.g. Pillow).
- Hidden folders in unix start with a dot, under windows the matter is slightly different but still simple.
- You can assume the terminal the script runs in won't be disturbed.
- Everything's fair in love and war.