Assignment 2: Cracking Passwords and Extracting Stego Message

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Procedure
To crack the passwords of the zip I found a line of code to generate all permutations of 5 letter lowercase words. Then I iterate through the list hashing each word and comparing it to the passwords. When all three are found the iteration stops and the passwords are printed to stdout.

To extract the message I first installed Python Image Library. Then I use the PIL to extract the pixels of the image from the file "DCIM_2837.png", then specifically the red values. After that I converted the values to binary and stripped the last bits off of the binary. Finally, I convert the binary to characters and output it as 'watermark.txt.'

The watermark is "This image is the exclusive property of Sangam Mulmi and is protected under the United States and International Copyright laws. Any unauthorized reproduction, manipulation, or distribution of this image is strictly prohibited. Copyrighted � 2015, Sangam Mulmi." repeated over and over.

Usage
You will need python 2.7 to run my programs.
For "password_cracker.py" just use the following command (this one takes a minute):

python password_cracker.py

For "message_extractor.py", in the directory with the image file "DCIM_2837.png" run the following command:

python message_extractor.py

Bonus
Is it:
Lost and insecure
You found me, you found me
Lyin' on the floor
Surrounded, surrounded
Why'd you have to wait?
Where were you? Where were you?
Just a little late
You found me, you found me
-- THE FRAY --