**At Home Python Assignment 🚀**

(This is a 3 page document)

You will need python-pptx - You will be creating a ppt with 5 pages.

You will need ImageMagick.

You will need Wand - an ImageMagick binding for Python.

You will need Googling skills. 🤓

(If you’re an amazing candidate, there’s a bonus points option on page 2)

This assignment is super simple, it should ideally take 2 hours to do. You have 2 days! 💥

**HINT:** Focus on correctness, not speed. Before Submitting check everything 5-6 times.

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**Everything below needs to be included in the python script 👇**

**Assignment:** You need to write a python script that takes the files ( images + logo) from a given directory, and outputs the resulting ppt file in the same directory.

There are 5 images and 1 logo file (a Nike logo) provided to you in this folder: (please download to your local)

<https://drive.google.com/drive/folders/1ZQR5c6RwdfrNXI4xdnZi8QH_3fbTROUX?usp=sharing>

1. Please watermark the 5 image files with the Nike logo provided, using **ImageMagick**.

(See sample file for placement, top left corner)

1. Insert each watermarked image into a new page on the ppt.

Maintain the original aspect ratio of each image.

1. Each page of the ppt should have a Heading, and Subheading, in a font of your choice.

**You will need to write the code in python. Please make sure to use a FOR loop, and good variables, so that your code is neat!**

**Your code will be evaluated based on quality and cleanliness and re-usability. 🙌**

**Sample output:**  
A sample of the desired output is provided in the above folder. Please make sure your code outputs something similar.

**Common Errors: A**. Logo placement  **B.** Distorting the aspect ratio of the logo/images **C.** Not using a simple FOR loop  **D.** Too many variables, bad messy code **E.** Not putting ImageMagick code in the .Py script

**F.** Hard-coding instead of using a loop **G. ‘**Cropping’ the images so it fits.

**Submission: (2 day deadline)**  
Please provide the completed ppt and .py file in an email. [Do NOT zip].  
Subject line:PPT Home Assignment

CC the following people: [praanshu@indycium.com](mailto:praanshu@indycium.com), [ratan@indycium.com](mailto:ratan@indycium.com), [shubham.paul.indycium@gmail.com](mailto:shubham.paul.indycium@gmail.com)

Once the video interview starts (in Round 2), you'll be required to demo and explain your code.

You will be running the code on screen share.

We want to see you in round 2!!!

**Good luck! 🔥**

**May the force be with you ⚔️**

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**Want Bonus Points? 🤫**

1. Format your code well!
2. Use functions!
3. Install pytest and write 1-2 test cases for your code. **(This is a major BONUS!)**

🤓**FAQs**🤓

1. I am having trouble installing ImageMagick, what should I do?

**ANS**: We are looking for engineers who can google and solve issues like this.

Google is your best friend!

1. I have never used ImageMagick/Wand/Python-pptx before. What should I do?

**ANS**: Learn it! We are looking for engineers who can google and learn.

1. Where do I submit my assignment?  
   **ANS**: Please read the submission details above.

1. I have finished and submitted my assignment, what should I do?

**ANS**: First, check to make sure you have not made any common errors, and that your code is perfect.

Then, wait for us to get back to you, in the meantime, prepare for a programming round, basic puzzle questions like in college, Linux commands/theory and BASH scripting.

1. I don’t know what the ‘aspect-ratio of an image’ is, can you help?

**ANS**: Please google this, or watch a youtube video on the topic.

1. Do I get extra points for doing this fast?  
   **ANS:** No, you get points for doing this extremely carefully and correctly!