**Procedure for background image change**

**ImageMagick** is a powerful command-line tool for manipulating images. It can be used to resize, crop, flip, rotate, and modify images in various ways.

**Libraries used**

**Pillow** is a popular Python library for working with images. It provides a simple and user-friendly interface to open, manipulate, and save various image formats.

**rembg** is a Python library for removing the background from images. It uses machine learning models to automatically segment the foreground objects from the background.

**PIL (Pillow)** is a Python library for working with images. It provides various functions to open, manipulate, and save images in different formats.

**Procedure**

1. Import the necessary libraries: rembg for background removal and PIL for image processing.
2. Define the input and output paths for the product image.
3. Open the product image using Pillow's Image.open() function.
4. Use rembg's remove() function to remove the background from the product image.
5. Save the resulting foreground image with a transparent background as a new file.
6. Open the foreground image and convert it to RGBA format using Pillow.
7. Loop through each pixel in the foreground image and make any black pixels fully transparent.
8. Define a list of background image paths.
9. Loop through each background image path and open the background image using Pillow.
10. Define an area within the background image where the foreground image will be pasted.
11. Paste the foreground image onto the background image using Pillow's Image.paste() function, with the foreground image as the mask to preserve its transparency.
12. Save the resulting composite image as a new file.