



ARTTIFAI TECH

PYTHON

Project Idea: Image Converter using Python

AIM:

To develop a **Python-based Image Converter** that allows users to convert images between different formats (JPG, PNG, BMP, GIF, etc.) with additional features like batch processing, resizing, and compression.

OBJECTIVES:

- ✓ Implement **image format conversion** using Python libraries like **(PIL) & Open CV**.
- ✓ Develop a **Graphical User Interface (GUI)** using **Tkinter** for easy user interaction.
- ✓ Allow users to **select and upload images** for conversion.
- ✓ Provide **batch processing support** to convert multiple images at once
- ✓ Ensure **error handling** for unsupported file formats and corrupted images.
- ✓ Optimize the program for **fast and efficient process**

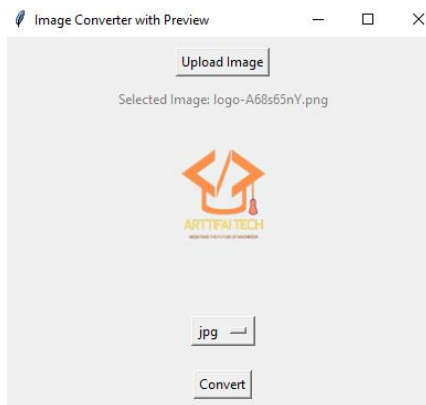
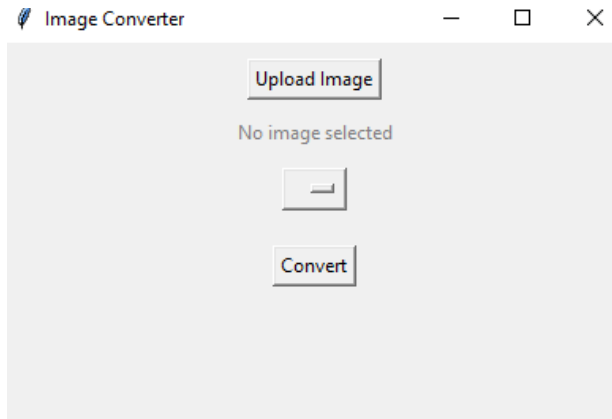
EXPECTED OUTPUT:

- ✓ A **functional Image Converter application** with a simple **Tkinter GUI**.
- ✓ Users can **upload an image, select an output format, and convert it** with a click.
- ✓ Converted images are **saved in the user-selected directory**.
- ✓ Users can **convert multiple images at once** using batch processing.
- ✓ Additional options for **resizing and compressing images** before conversion.
- ✓ Smooth user experience with **error handling and progress messages**.



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SAMPLE OUTPUT:



NOTE:

- The completed project must be uploaded to the student's own GitHub repository.
- The GitHub repository must be public for evaluation purposes.
- The repository link should be submitted via the Google Form:

<https://forms.gle/tNFMkX5wt343vpCo7>