

This Python script performs the following tasks:

1. It imports necessary libraries: OpenCV for image processing, json for handling JSON data, and os for interacting with the operating system.
2. It specifies a directory that contains image files.
3. It lists all files in the specified directory.
4. It initializes an empty list ``labels`` to store information about each image.
5. It iterates over each file in the directory:
  - Constructs the full file path.
  - Reads the image file using OpenCV's ``imread`` function.
  - Checks if the image is loaded properly. If the image is not loaded (which means the file is not a valid image file), it prints a message and skips to the next file.
  - Displays the image in a window for 1 second.
  - Asks the user to enter a label for the image.
  - Appends a dictionary to the ``labels`` list. The dictionary contains the image file name and the label entered by the user.
6. After all images have been processed, it writes the ``labels`` list to a JSON file. Each object in the JSON file represents an image and contains the image file name and the label.

In summary, this script is a tool for manually labeling images. It displays each image to the user, asks the user to enter a label, and stores the labels in a JSON file.