**Image to Cartoon Python OpenCV**

**Required modules in this Projects**

1. **CV2:** Imported to use OpenCV for image processing
2. **easygui:** Imported to open a file box. It allows us to select any file from our system.
3. **NumPy:** Images are stored and processed as numbers. These are taken as arrays. We use NumPy to deal with arrays.
4. **Imageio:** Used to read the file which is chosen by file box using a path.
5. **Matplotlib:** This library is used for visualization and plotting. Thus, it is imported to form the plot of images.
6. **OS:** For OS interaction. Here, to read the path and save images to that path.
7. **Flask:**Flask is a micro web framework written in Python.

**Steps to develop Image to cartoon**

1. Importing the required modules
2. Building a File Box to choose a particular file
3. How is an image stored?
4. Transforming an image to grayscale.
5. Smoothening a grayscale image
6. Retrieving the edges of an image
7. Preparing a Mask Image
8. Giving a Cartoon Effect
9. Plotting all the transitions together
10. Functionally of save or download  button