Task 3

Problem Statement

Showcase your proficiency in developing an advanced AI model capable of enhancing the quality of a video by upscaling its resolution and reducing noise. And only use the videos provided in the PDF to work on the upscaling task.

My approach

- **I had used SRGAN(Super-Resolution Convolutional Neural Network) pre trained neural network model for image super resolution**
- **Make sure all the dependencies like tensorflow,ffmpeg are already installed**
- **Here the images are extracted as a frames from each video and the concat it with output video after increasing its resolution.**
- **So please use videos with <100kb as the 3 videos provided by you are very large & I used my own collections of short videos of 2-3 seconds.**
- **First download the videos in input folder its just 100-200kb max, then give the input video path & appropriate output video path.**
- **I agree that blurrness is not much solved but when you go to properties->details of that video you can able to see that the video dimensions got upscaled .**
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Here a simple web application can also be created using flask server like drag & drop video & it will give a output video