Fall 2025	**Course Code: CSE480s**

Machine Vision

Lab 01

Task 1

You're working on an app that generates **fan-made ID cards** for animated/movie characters.
- Load an image of your favorite character.
- Resize it to fit a 200×200-pixel photo space.
- Add the character's name, series/movie name, and a made-up ID number using cv2.putText().
- Add a border and save the ID card as "character_id_card.jpg".

Task 2

You are designing a themed social media frame for fans of your favorite character.
- Load your character's image.
- Flip it horizontally (like a selfie).
- Draw a colored rectangle frame with rounded edges (simulate it with thick lines).
- Save as "profile_frame.jpg".

Task 3

You're creating a dramatic transition between two moods of your character for a fan trailer.
- Load two images of your character (e.g., happy vs. angry).
- Resize them to the same size.
- Use cv2.addWeighted() to blend them gradually (like a cross-fade).
- Create and display 5 transition frames.
- Save the result as "transition_scene.jpg".