Inpainting Project (5%)
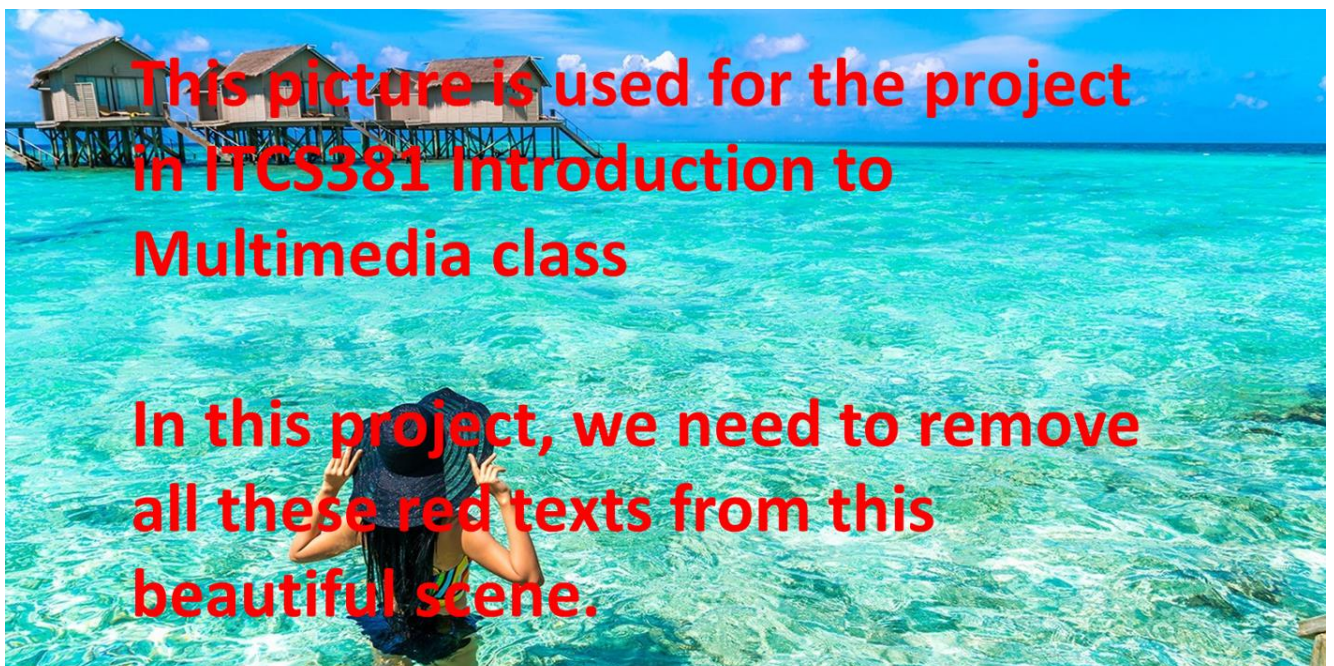
ITCS381 Introduction to Multimedia Systems

Goal : The goal of project is to <u>remove unwanted objects</u> from an image.

What you need to do :

1) Since we are in the middle of COVID-19 situation, this project will be an individual project.
2) You are given an image which contains red-text overlay as shown below.

3) You will write code in MATLAB software to
   a. **Remove all the red-text** overlay in the image **using inpaintCoherent function.**
   b. **Remove a woman** from the image **using inpaintExemplar function.**
4) MATLAB live scripts are interactive documents that combine MATLAB code with formatted text, equations, and images in a single environment called the Live Editor. In addition, live scripts store and display output alongside the code that creates it.
5) You are given a MATLAB live script file (**inpainting_template.mlx**) to be a starting point of doing this project. Follow the guidelines in **inpainting_template.mlx** and fill your code in it to produce the final results.
6) You are also given a pdf file (**inpainting_template.pdf**) which contains sample results that you need to export from your code as a pdf file when you make your final submission.

What do you need to submit?

1) Your MATLAB live script file with naming as ID6388xxx_inpainting.mlx that MUST run with the given image.

2) The exported pdf naming as ID6388xxx_inpainting.pdf of your live script file that shows your code and your results step by step until the final image which the red-text overlay and the woman are removed.