RO-1.0X

Assignment 10
Edge Detection

Problem Statement:

- **Given file is**
  - "**assignment_10.jpg**",

- **Tasks**

    - Implement <u>Canny Edge Detection Algorithm</u> from scratch, and compare the results with OpenCV Canny Edge implementation.

    - ***Note***: For Smoothing you can use OpenCV function, but for other steps use your own function

- **To Submit**

    - **A Sequence of "outputs.jpg" after each step from the Algorithm**

      - *for eg: "output_nms.jpg", "output_Hysteresis.jpg" etc...*

    - **"canny.py", "main.py"**

      - *Create a class based implementation in **"edge_detection.py"** and call each operation in **"main.py"***

    - ***"canny_opencv.jpg"***

      - *Use OpenCV's canny edge function and compare your result with the same.*

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      - To submit the assignment put both the files in a folder named **username**, where **username** is your user name with which you signed up at DeepEigen.

        - Submit **username.zip** file