Be sure to submit your source code and related files on E-Learning before deadline.

**First program**

Required output: xyY.png, Luv.png. Size: 500 x 500.

To save the output as an image, run statement e.g. imwrite("xyY.png", xyY)

**Second, third and fourth program**

There will be **five** test images for the evaluation of second, third and fourth program. For each test image, run the program and save the output as an image. The filename, output filename, and required window size are listed below.

**Naming of output images:** e.g. 21.png corresponds to second program running on test1.ppm. 43.png corresponds to fourth program running on test3.ppm.

| file name | Window size | | | | output filename |
|-----------|------|------|------|------|-----------------|
|           | W1   | H1   | W2   | H2   |                 |
| test0.ppm | 0    | 0    | 1    | 1    | 20.png, 30.png, 40.png |
| test1.ppm | 0.5  | 0    | 1    | 0.5  | 21.png, 31.png, 41.png |
| test2.ppm | 0    | 0    | 1    | 1    | 22.png, 32.png, 42.png |
| test3.ppm | 0    | 0    | 0.5  | 0.5  | 23.png, 33.png, 43.png |
| test4.ppm | 0    | 0    | 1    | 1    | 24.png, 34.png, 44.png |

Collect the 17 output images (2 from the first program, 15 from the second, third, and fourth program) in a folder named by your NetID and copy it to TA.