

Assignment-2

1. Implement Histogram equalization for any given image
2. Two matrices are given one is a bigger (W) another square of size 3X3 (K). Now we have to implement the following operations to get the resultant matrix R.

W11	W12	W13	W14	W15	W16	W17	W18
W21	W22	W23	W24	W25	W26	W27	W28
W31	W32	W33	W34	W35	W36	W37	W38
W41	W42	W43	W44	W45	W46	W47	W48
W51	W52	W53	W54	W55	W56	W57	W58
W61	W62	W63	W64	W65	W66	W67	W68
W71	W72	W73	W74	W75	W76	W77	W78
W81	W82	W83	W84	W85	W86	W87	W88

K11	K12	K13
K21	K22	K23
K31	K32	K33

Matrix R, the result after operations on W and K.

	W11*k11+W12*K12+W13*K13 +W21*K21+W22*K22+W23*K23 + W31*K31+W32*K32+W33*K33	W12*k11+W13*K12+W14*K13 +W22*K21+W23*K22+W24*K23 + W32*K31+W33*K32+W34*K33	
	W21*k11+W22*K12+W23*K13 +W31*K21+W32*K22+W33*K23 + W41*K31+W42*k32+W43*K33	

Write a
program
to

compute R. Follow the operations given in the R carefully. The other operations are similar.

Extend the program for any size of K provided K is a square one.