```
% 19ucc023
% Mohit Akhouri
% Experiment 6 - Observation 5
% ALGORITHM :
% This code will use the model "Simulink Observation 5" and calculate
% DCT of the received image signal for four different cases by
knocking off
% 16,32,48 and 56 coeffcients
sim('Simulink_Observation_5'); % calling the simulink model
N = 256; % Total size of image ( 256 rows with 256 columns )
output\_case\_1 = zeros(N,N); % Output for case 1 = top 48/64
 coefficients
output_case_2 = zeros(N,N); % Output for case 2 = top 32/64
 coefficients
output_case_3 = zeros(N,N); % Output for case 3 = top 16/64
 coefficients
output_case_4 = zeros(N,N); % Output for case 4 = top 8/64
 coefficients
[output case 1,output case 2,output case 3,output case 4] =
DCT_2D(out.y1.data,out.y2.data,out.y3.data,out.y4.data);
% Plot of Figures for case 1 and case 2
figure;
subplot(1,2,1);
imshow(uint8(output_case_1));
title('Compressed Image obtained via SIMULINK MODEL for Case 1 - top
 48/64 coefficients kept');
subplot(1,2,2);
imshow(uint8(output_case_2));
title('Compressed Image obtained via SIMULINK MODEL for Case 2 - top
 32/64 coefficients kept');
sgtitle('19ucc023 - Mohit Akhouri');
% Plot of Figures for case 3 and case 4
figure;
subplot(1,2,1);
imshow(uint8(output_case_3));
title('Compressed Image obtained via SIMULINK MODEL for Case 3 - top
 16/64 coefficients kept');
subplot(1,2,2);
imshow(uint8(output_case_4));
title('Compressed Image obtained via SIMULINK MODEL for Case 4 - top
 8/64 coefficients kept');
sgtitle('19ucc023 - Mohit Akhouri');
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