Multimedia (Fall 2017, Sejong University)
Prof. S. M. Riazul Islam

Practice Assignment (PA) 5 and 6

The details of the calculation should be provided for each question.

1. Calculate the discrete cosine transform of the following array of numbers:

$$f(i) = \{1, 1, 1, 1\}$$

2. Calculate the discrete cosine transform of the following array of numbers:

$$f(i) = \{1, 2, 1, 2\}$$

3. Calculate the discrete cosine transform of the following 2-D data block:

$$f(i, j) = \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$$

4. Calculate the discrete cosine transform of the following 2-D data block:

$$f(i, j) = \begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix}$$

Instructions:

1. You should upload this PA in Sejong University Blackboard after you log-in with your ID
2. **Upload either PDF or Microsoft word document.**
3. Only a single file should be uploaded
4. Student name and student number should be clearly written on the top of the uploaded document.
5. Deadline: November 27, 2017 (Monday).