Universiti Malaysia PAHANG Crawry - Verser - Verser	COURSE: IMAGE PROCESSING			MARKS:	
	TOPIC: Image watermarking		CODE: BCM2063	/10	/10
	Lab Exercise	NO: 6	DURATION: 90 minutes		

QUESTION 1

[10 Marks]

Instruction:

- (a) Open "Lena.tiff", read the file into *f*.
- (b) Open "watermark.tiff", read the file into *w*.
- (c) Write a new function to embed a watermark into the host image using Least Significant Bit (LSB) (without build-in-function).
- (d) Test watermarked image against different types of attack (e.g. Salt & Pepper, Gaussian Noise, etc)
- (e) Write a new function to extract a watermark from the watermarked image (without build-in-function).
- (f) Display the watermarked image and watermark recovery after different types of attacks.
- (g) Inspect and analyse the watermark recovery in terms of normalize-cross-correlation (NC) values and Bit-error-rate (BER) values.