Universiti Malaysia	COURSE: IMAGE PR	MARKS:			
PAHANG Dipuerry - Knowly - Couldy	TOPIC: Frequency Do	main	CODE: BCM2063		/100
	Assignment	NO: 1	DURATION: 6 hours		

## [CO1/C2/10%] [CO1/C3/15%] [CO1/C4/25%] [CO2/P2/12.5%] [CO2/P3/12.5%] [CO2/P4/25%]

Choose the digital images from internet sources, and you are requiring to:

- 1. Develop a Graphical User Interface (GUI) for image enhancement application using some techniques as below
  - a. Smoothing in Frequency Domain
  - b. Sharpening in Frequency Domain
- 2. Prepare a report. Your report (softcopy) should be submitted to KALAM before 5.00 pm on Monday (October 24, 2017). The contents of your reports as following:
  - a. Introduction
  - b. Objective
  - c. Summary of image enhancement in frequency domain
  - d. Experiments: you need to write Matlab code, menu buttons.
  - e. Results: you need to display the image output, comparison between the original image and the output for each of the resulting image
  - f. Discussion (analyze the significant of study for each technique, smoothing and sharpening filter).
  - g. Conclusion.

## Rubric

Lecturer :	Dr. Ferda Ernawan					
Course Code & Name :	BCM2063 Image Processing					
Program :	Graphic & Multimedia	1				
Faculty :	Faculty of Computer Syst	ware Engineering				
Semester :	1	Session :				

Total Mark 0

%

	1
Student Name	2
	3

CRITERIA		LEVEL OF ACHIEVEMENT					WEIGHTAGE	SCORE GAINED	MARK	Cognitive
	0	1	2	3	4	5				
C01										
Report proposed alternative solutions.		less than 40% problem identification and logical proposal related to image processing techniques		60% problem identification and logical proposal related to image processing techniques		more than 80% problem identification and logical proposal related to image processing techniques	2		0	C2

Assignment 1

Demonstrate appropriate image input relevant to the problem	apply single image input to be tested	3 images are tested in the experiment	more than 5 images are tested in the experiment	2		0	C3
Analyze the experimental results	30% able to discuss and analyze the results	60% able to discuss and analyze the results	more than 80% able to discuss and analyze the results	6		0	C4
						0	
CO2						Psych	nomotor
The overall program structure	6 or 7 errors.	2 or 3 errors.	Ability to execute without error	1	5	5	P4
The presentation of final output	presentation of the final output, 30% complete	presentation of the final output, 60% complete	presentation of the final output, 100% complete	1		0	P2
Usage of arithmetic expression (calculation)	6 or 7 errors.	2 or 3 errors.	The calculation without error	2		0	Ρ3
Correct usage of selection control statement (if/ifelse/case)	6 or 7 errors.	2 or 3 errors.	The selection control statement without error	3		0	Ρ4

correct usage of loops statement (for/do- while/whileetc)	6 or 7 errc	S. 2 or 3 erro	rs. The loops control statement without error	3		0	Ρ4
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Grand Total	0
	8