

MIDTERM EXAM ODD SEMESTER ACADEMIC YEAR 2021/2022
STUDY PROGRAM INFORMATION SYSTEM
FACULTY OF ENGINEERING AND INFORMATICS
UNIVERSITAS MULTIMEDIA NUSANTARA

Subject	: Visual Programming	Date	:
Lecturer(s)	: Rudi Sutomo,S.Kom.,M.Si.,M.Kom.	Time	:
Form	: Essay / Project	Type	: Onsite / Takehome

EXAM CONDITIONS / INSTRUCTIONS:

Please answer the following questions clearly and meaningfully. Answers are collected in PDF format with the name [NIM_NAME_CLASS].pdf.

COURSE SUB LEARNING OUTCOMES (SUB-CLO):

SUB LEARNING OUTCOMES (SUB-CLO)		ELO
Code	Description	
CLO1-Sub-CLO1	Students understand concepts and terminology in .Net technology (C2)	ELO B
CLO2-Sub-CLO2	Students understand the concept of control, selection, looping (C2)	ELO G
CLO2-Sub-CLO3	Students implement the concept of class, objects in program making (C3)	ELO G
CLO3-Sub-CLO4	Students implement the concept of method and instance variables in program development (C3)	ELO H
CLO3-Sub-CLO5	Students implement the concept of method functions and procedures in program making (C3)	ELO H

PROBLEM/QUESTIONS:

1. Question 1: Sub-CLO 1,2, Weight (15%)

Create a program using Visual C# to display odd numbers from 10 to 200, using :

- for
- while
- do-while

ASSESSMENT RUBRIC (per question):

Rated aspect	Assessment criteria				
	Very Poor	Poor	Satisfactory	Good	Excellent
	< 45	45-54	55-69	70-84	(Score ≥ 85)
	Invalid answer	2 out of 3 criteria do not match	1 of 3 criteria does not match	3 criteria are answered correctly but there are parts that are slightly inappropriate	- Able to make numeric input and stored in the appropriate variable -Able to repeat as many times as given input

2. Question 2: Sub-CLO 1,2,3, Weight (30%)

Write a program that will initialize the desired number of arrays according to the input and the next input will receive numbers that will later be inserted into the array. The program will determine the Highest Score, the total number of Values and display the average value then print the result.

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ASSESSMENT RUBRIC (per question):

Rated aspect	Assessment criteria				
	Very Poor < 45	Poor 45-54	Satisfactory 55-69	Good 70-84	Excellent (Score ≥ 85)
	Invalid answer	2 out of 3 criteria do not match	1 of 3 criteria does not match	3 criteria are answered correctly but there are parts that are slightly inappropriate	Can make project programming well and perfect

3. Question 3: Sub-CLO 3,4,5, Weight (35%)

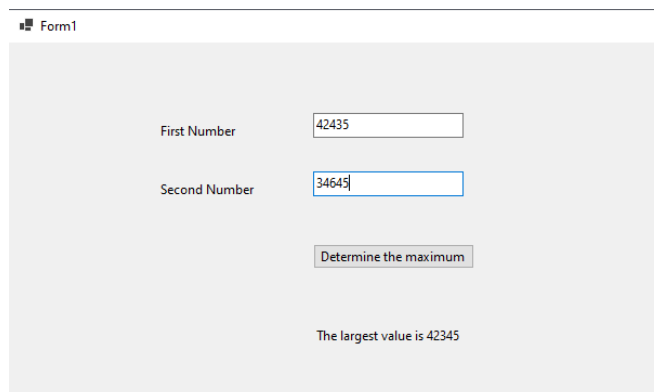
The methods that we have created so far use pass by value parameters. This means that a copy of that variable passed to the method is used instead of the actual variables. Explain and give examples.

ASSESSMENT RUBRIC (per question):

Rated aspect	Assessment criteria				
	Very Poor < 45	Poor 45-54	Satisfactory 55-69	Good 70-84	Excellent (Score ≥ 85)
	Invalid answer	Students do not present The methods accurately	Students present a complete The methods, but errors are still found	Students present The methods but errors are still found	Students present complete and accurate about The methods
		Students cannot determine the The methods accurately	Students can determine The methods accurately	Students can determine The methods accurately	Students can determine The methods accurately
		Students do not answer and include the process of the meaning of The methods	Students can explain part The methods but there are still far from complete answers from the core in question	Students can answer with clear points about The methods but still find slight errors in the explanation.	Students can answer about the meaning of The methods accurately

4. Question3: Sub-CLO 1,2, Weight(20%)



Make the program display the maximum value as shown below:



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ASSESSMENT RUBRIC (per question):

Rated aspect	Assessment criteria				
	Very Poor	Poor	Satisfactory	Good	Excellent
	< 45	45-54	55-69	70-84	(Score ≥ 85)
	Invalid Project	The program runs but does not match the question command	The program runs but when the value is input it does not come out the expected result	The program runs but when inputted the value matches the expected result but the output is still wrong	- Can make project programming well and perfect

References:	Created by:	Approved by:
Material Week 1-7	on behalf of the Lecturer Team	
		
	(Rudi Sutomo, S.Kom., M.Si., M.Kom.) Course Coordinator	(Ririn Ikana Desanti, S.Kom., M.Kom.) Head of Study Program