

DCI1013: PROBLEM SOLVING

Tutorial 1

by
Noor Azida Binti Sahabudin
Faculty of Computer Systems & Software Engineering
azida@ump.edu.my



OER Problem Solving by Noor Azida Binti Sahabudin work is under licensed <u>Creative Commons Attribution-NonCommercial-NoDerivatives 4.0</u> International License.

Identify data types

Incorrect Variable Name	Problem
Address_Client_from_Pahang	Too long
Phone Number	
Price\$	
Bch	
1email	
Height*Weight	

Hint: Please refer notes "General Problem Solving Concept" (Chapter 1)



Explain the problem of the incorrect variable name

Data	Data Types
"Awana Kijal"	Character String
1.20	
"RM1.20"	
"ACC9022787"	
"@gmail.1heart"	
TRUE	
"20/8/2017"	
-22.21	
"-22.21E"	
"B"	

Developing a table of all possible resultants of a Logical Expression

NOT A OR NOT B AND NOT C

Α	В	С			
Т	Т				
T	T				
Т	F				
Т	F				
F	T				
F	Т				
F	F				
F	F				



Solve logical expression:

Assume; A = TRUE, B = FALSE, C = TRUE, D = FALSE

A OR NOT B AND C OR NOT D

No	Operation	Resultant
1		
2		
3		
4		
5		



Solve the equation using relational and logical operators:

Assume; A = 6, B = 8, C = TRUE, D = FALSE

i.
$$R = A + 3 > B - 1$$
 AND C OR D

ii.
$$R = NOT C OR D OR A - 3 \le B$$

iii.
$$R = 3 + 7 > = B OR NOT C AND B < A$$

iv.
$$R = A * 1 <> B + A AND C OR D$$

v.
$$R = 1 + B > A / 1 OR NOT D AND C$$





Author Information

NOOR AZIDA BINTI SAHABUDIN

Senior Lecturer

Faculty of Computer Systems & Software Engineering

Universiti Malaysia Pahang

PhD in Educational Technology