

DCI1013: PROBLEM SOLVING

Tutorial 5

by

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Question 1: Flowchart - Sequence

Draw **flowchart** for each problems:

1. Compare 2 values. If number 1 is greater than number 2, print *“Number 1 is greater than Number 2”*
2. Compute the average and product of three numbers
3. Solving an equation $Y = 3x + 2$
4. Calculate the division of two numbers. If the divisor equal zero, display the message *“unknown”*

Hint: Please refer notes “General Problem Solving Concept” (Chapter 6)



Question 2: Flowchart – Selection/Case

Draw **flowchart** for each problems:

1. Find the largest among three different numbers entered by user.
2. Draw a flowchart based on the program with switch statement on the following condition:

Case d: print “Display Record”

Case m: print “Modify Record”

Case x: print “Delete Record”

Default: print “INVALID SELECTION!”

Hint: Please refer notes “General Problem Solving Concept” (Chapter 6)



Question 3: Flowchart – Repetition

1. Using for, while and do-while control statement, draw flowcharts that calculate the total number from 1 to 5.
2. Calculate the average of 5 numbers insert by user. Draw flowchart.

Hint: Please refer notes “General Problem Solving Concept” (Chapter 6)



Question 3: Flowchart – Selection/Repetition

ABC Babysitter have their own price rate according to the child's age as show in Table 1.

Table 1: Price rate

Age of child	Rates (RM)
0 – 11 months	150
1 – 3 years	120
4 – 6 years	100

By insert number of child and their age, print out the total price of payment.

Hint: Please refer notes “General Problem Solving Concept” (Chapter 6)



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