PENANG SANGAM HIGH SCHOOL P.O.BOX 44, RAKIRAKI LESSON NOTES 17

Year/Level: 12 Subjects: Computer Studies

Strand:	CE Strand: CE 2 Application Packages
Sub-strand:	CE 12.2.1 Visual Basic.NET Programming (VB NET)
Content Learning	Flow chart symbols, logical structures, Pseudocode Writing
Outcome:	
Lesson Notes	

Flow Chart Symbols

- A flowchart is a diagrammatic representation of a program or a graphic representation of the steps needed to solve the programming problem.
- A flowchart is an outline that depicts (shows) events or actions and the sequence in which the actions must be taken to correctly solve the problem.



Logical Structures

1. Logic structures are the arrangements of programming statements. Three types are (sequence, selection and loop).



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Sequence – one program statement followed by another Selection (if-then-else) – when a decision must be made Repetition/Iteration/loop – when a process is repeated until a condition is true

Pseudocode Writing

Also known as Structured English, allows a programmer to use English like sentences to write an explanations of what the program is supposed to do.

Example

1) Write the Pseudocode to calculate the average of three numbers

Start Procedure Input three numbers Calculate Total= Number1 + Number2+ Number3 Calculate Average =Total/3 Display Average End of Procedure

2) Draw a flowchart to find sum of three numbers and display average. Write a Pseudo code of the program.



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Start procedure Input num1, num2, num3; Total = (num1+num2+num3); Average = (Total/3); Display Total, Average End procedure

Questions

- 1) Draw a flowchart to find the sum of two numbers and display the sum.
- 2) Draw a flowchart that reads the age from the user and displays whether the person is eligible for voting or not. (Note that voting age in Fiji is 18 and above)
- Draw a flowchart to find sum of two numbers and display average. Write a Pseudo code of the program. Name the logic structure being used.