Programming



20/07/2020

Unit 3



A CONTRACTOR

Home work



1. Write pseudocode steps and draw a flow chart for Adding two numbers

2. Write pseudocode steps and draw a flow chart for Calculating the Perimeter of the rectangle

Adding 2 numbers



Pseudocode

- 1. Start
- 2. Input number 1
- 3. Input number 2
- 4. Add number 1 and number 2
- 5. Display the answer
- 6. Stop



Calculating the Perimeter of the rectangle



- Pseudocode
- Start
- Input width
- Input length
- Perimeter = width x 2 + length x 2
- Display perimeter
- stop



Write the Pseudocode for the following flow charts



Control structures



Problems are solved using three basic structures.
1. Sequence: It is a series of statements that are executed one after another.





3. Repetition: It is used to repeat statements while

certain conditions are met.







Sequence



• Execution of instructions in an algorithm sequentially from top to the bottom is called sequence.







Selection



Here it is expected to make a making decision on which step to follow depending on the condition given by the algorithm.
In a selection, the condition is checked first and the flow direction is chosen based on whether the condition is true or false.

Selection ...





According to the flow chart, if the power is Available the fan will function , if power is not available, the fan will not function

Selection ...





- 1. Start
- 2. Switch on
- 3. If power is available Fan will function Fan will not function

Example



Draw a flow chart and write a pseudocode for crossing the road by checking both sides of the road

Example ...





1. Start

- 2. Go to the Road crossing
- If there are no vehicles cross the road
 Else
 - do not cross the road

Endif

4. Stop

Repetition



• Execution of an instruction or several instructions in an algorithm repeatedly until a condition is satisfied is called repetition.

- A repetition will take place depending on whether a condition is satisfied or not satisfied.
- For example, natural water cycle is a process that takes place repeatedly.

Repetition ...



Musaeus College - Colombo

Yes



Have a nice day....

Musaeus College Colombo

Prepared by Kinkini Kumarage