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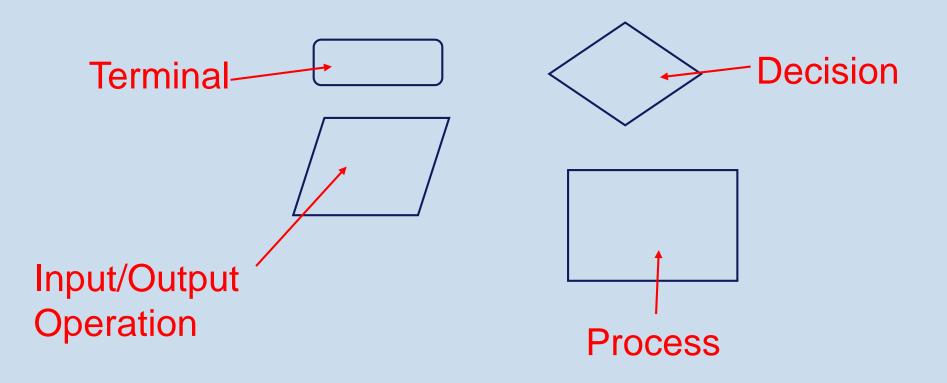
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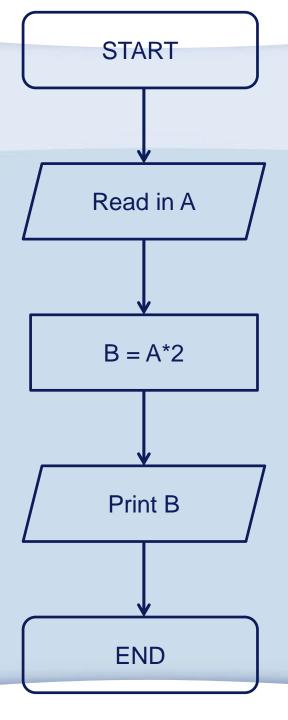
What is a flowchart?



A flowchart is a graphical diagram which can be used to represent an algorithm

Symbols ***







What is pseudocode?



Pseudocode is a readable description of what an algorithm should do, which can be implemented in any language

Structured English and Pseudocode

Structured English

PROGRAM PrintNumber:

Read in a number and print it out.

END.

Pseudocode

PROGRAM PrintNumber:

Read A

Print A

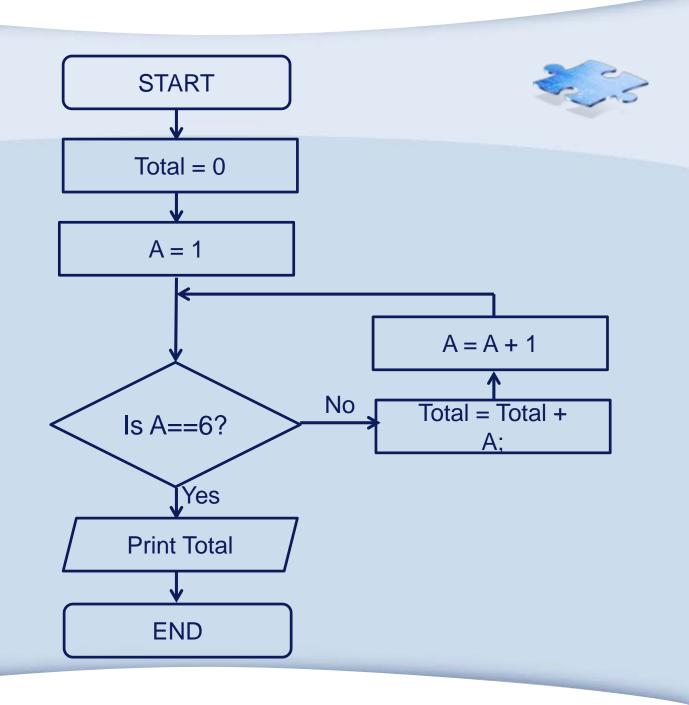
END.

An exercise 3



Write the following algorithm in both pseudo code and a flowchart:

Print the sum of the following numbers -1...5



Structured English and Pseudocode

Structured English

PROGRAM PrintSum1to5:

Keep adding the numbers from 1 to 5.

END.

Pseudocode

```
PROGRAM PrintSum1to5:

Total = 0
A = 1
WHILE (A NOT EQUAL TO 6) DO

Total = Total + A
A = A + 1
ENDWHILE
Print Total
END.
```

More exercises



❖Alter the previous algorithm so that it calculates the sum of the numbers 1 to 100 but include only multiples of three or five in the sum e.g., 3, 5, 6, 9, 10.

Given a list of positive numbers return the largest number in the list.

A group exercise 3



- In groups of 4, take a case study, draw a flowchart and matching pseudocode of a scenario in your case study.
- Create a .docx or a .pdf to include a picture of the flowchart and pseudocode text.
- Upload to Week2 Assignment (one per group)
- Write group name in header
- Submit at end of class.

