

# Contents \*\*\*

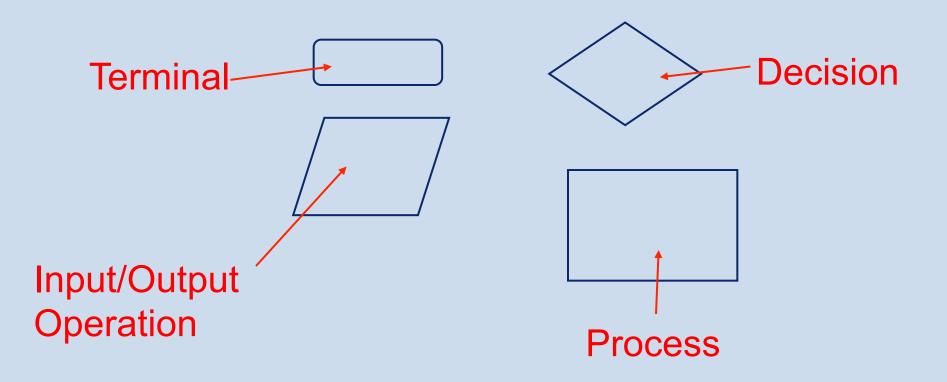
- 1 Flowchart revision
- Pseudocode revision
- Worked example
- An exercise

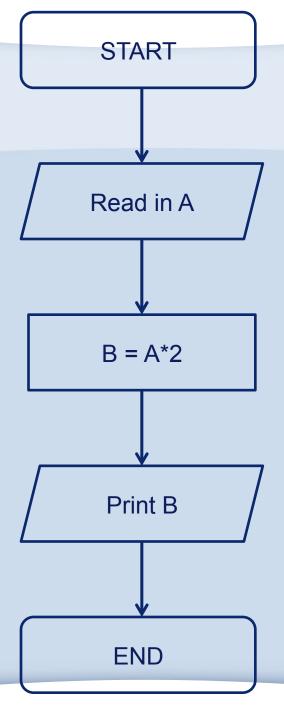
## What is a flowchart?



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

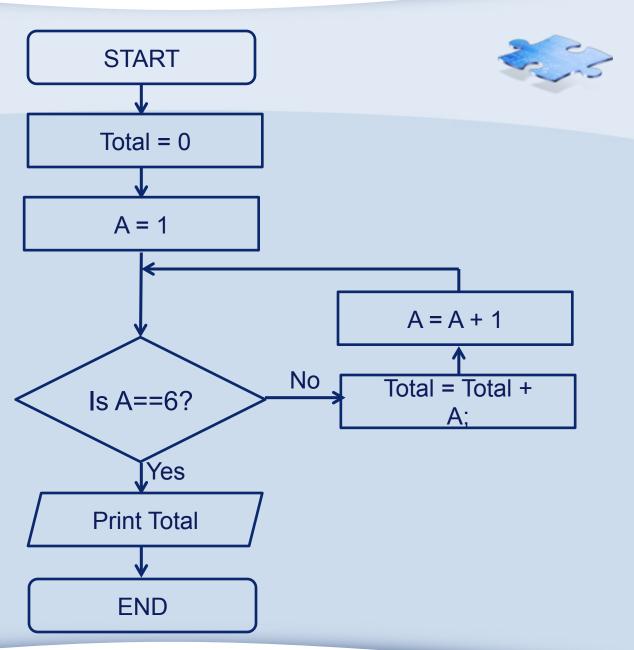
END.

### An exercise .... 🤝



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 .... 3



❖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

Assign yourself roles (as stated on the handout)

Take a photo of flowchart & pseudocode and upload to Twitter (one per group)

