Unit 24 Program design and computer languages

1 Programming

- A In pairs, discuss what you think programming is.
- **B** Look at the definition of *programming* in the Glossary. Is it similar to yours?

#include <stdio.h> main() { printf("good morning\n"); }

This C program tells the computer to print the message 'good morning'

Steps in programming

- A Match the words (1-5) with the definitions (a-e).
- 1 flowchart
- 2 source code
- 3 compiler
- 4 machine code
- 5 debugging
- a Program instructions written in a particular computer language
- **b** The techniques of detecting and correcting errors (or bugs) which may occur in programs
- c A diagram representing the successive logical steps of the program
- **d** A special program which converts the source program into machine code the only language understood by the processor
- e The basic instructions understood by computers; it consists of 1s and 0s (binary code)
- B Listen to Andrea Finch, a software developer, talking to a group of students on a training course about how a program is written and check your answers to A.

C	Listen again and put these steps into the correct order.
	Write instructions in a programming language
	Prepare documentation
1	Understand the problem and plan a solution
	Make a flowchart of the program
	Compile the program (to turn it into machine code)
	Test and debug the program

Listen again and make detailed notes. In pairs, use your notes to write a short explanation of what each step in C means.