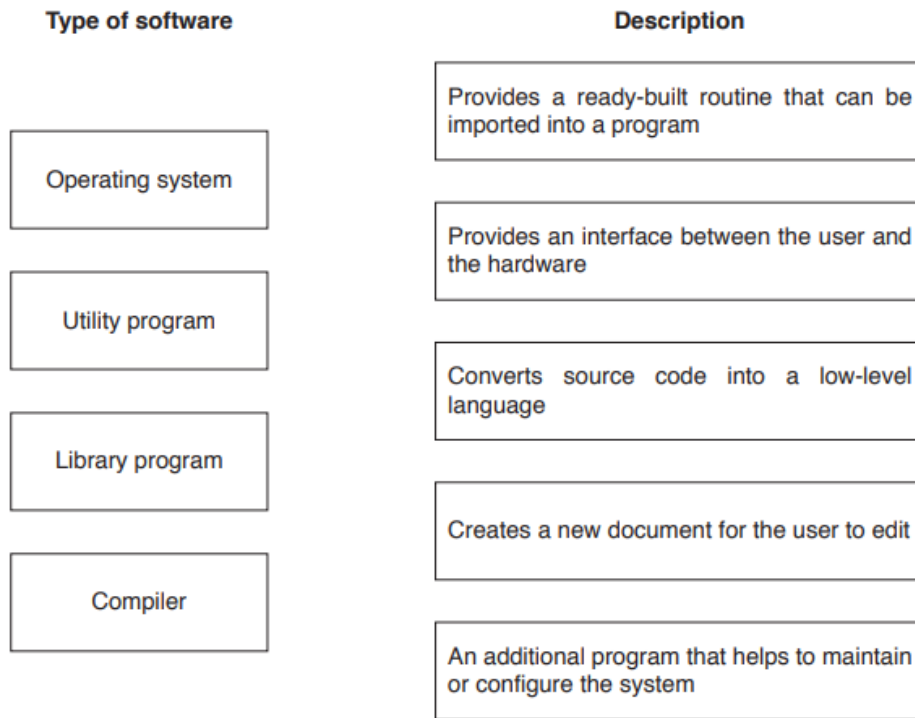


Revision Questions HCS Paper 1

Question 1

- (a) The diagram shows different types of software on the left, and descriptions on the right.

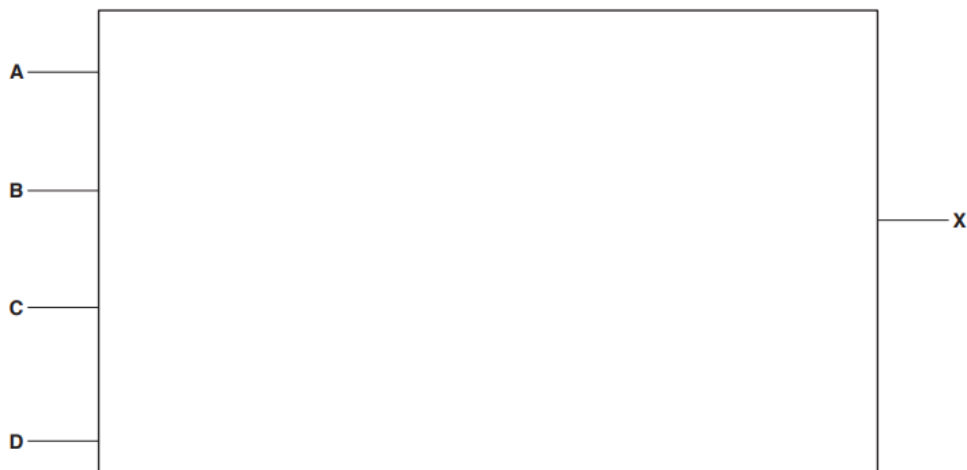
Draw a line from each type of software to its correct description.



Question 2

- (a) Draw a logic circuit to represent the following logic expression:

$$X = \text{NOT} (A \text{ AND } B) \text{ AND } (C \text{ XOR } D)$$



(b) Complete the truth table for the logic expression:

$$X = \text{NOT } (A \text{ AND } B) \text{ OR } (A \text{ AND } (B \text{ XOR } C))$$

A	B	C	Working space	X
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

Question 3

Dominic uses a tablet computer to complete work. He records videos of his work to send to his colleagues to watch at a later date.

(a) The tablet computer has input and output devices.

(i) The table lists four devices built into the tablet.

Tick (✓) one or more boxes for each device to identify whether it is an input device, an output device or both.

Device	Input	Output
Touchscreen		
Webcam		
Microphone		
Fingerprint scanner		