COMPUTING SYSTEMS

Modern computer systems receive an input, process that data and then produce an output. The data can be sored in memory. They are designed to automate any process by a program. To execute programs that operate on data.	 The processor (CPU)the component that executes program instructions. An instruction may: Perform arithmetic or logic operations on data Perform input/output of data 	Logical operations operate on statements that are true or false. There are three basic logical operations. AND OR NOT
Modern systems also rely heavily on communication between them.	•Control program flow	statement operator statement (true or false) (true or false)
Communication Computing systems exchange information and form networks Programs and data are transferred between computing systems, when required.	The storage (secondary memory) is the set of components that stores programs and data. Storage is persistent : it retains its contents when the power is off.	Logical expressions — logic circuits can be represented using diagrams
"Al has by now succeeded in doing essentially everything that requires 'thinking' but has failed to do most of what people and animals do 'without thinking' – that, somehow, is much harder!" Donald Knuth, author of <i>The Art of Computer Programming, in</i> 1981 Programming computers to learn from experience	Main memory is referred to as RAM. The main component that stores the programs and data currently in use . Memory is volatile : its contents are lost when the power is off.	Logical operations — logic gates can be represented using symbols
		FREE or OPEN software is where creators of a program can choose to provide access to its source code . This means that anyone can 'see inside' the program to understand how it works, check for errors, suggest improvements, and 'remix' it. Whilst still acknowledging the source.

open

left or right

