

Name:

Programming: Translators and Editors

A	Translators vocab
Assembly language	A simple low-level language where opcodes are replaced with mnemonics and the <i>instruction set</i> is small (maybe 9 instructions)
Compiler	A program which turns <i>source code</i> into <i>object code</i> and saves it as an executable file
High-level (language)	A language which is easy to read and requires <i>translating</i> before the computer understands it
Instruction set	The full list of commands available within a language
Interpreter	A <i>translator</i> which translates <i>source code</i> as it is read, stopping if it reaches an error
Linker	A tool which can combine different compiled codes
Low-level (language)	A language which is close to the format read by the computer
Machine code	Code written in binary
Object code	Another word for machine code
One-to-many	A language where one written instruction corresponds to a number of actions by the processor
One-to-one	A language where one written instruction corresponds to one action by the processor
Runtime environment	Everything you need to run a program
Source code	The original code before compiling
Translation	Conversion of high-level language to machine code
Translator	A program which converts high-level language or assembly language to machine code

B	Command breakdown	
Opcode	The part of the instruction which tells the CPU what operation is to be done	
Operand	The part of the instruction which is to be operated on	
C	A single command at different levels	
	Opcode	Operand
Machine code	0000 0001	0010 1110
Hex	01	2E
Assembly	ADD	2E
Python	+	num
Effect	adds	the value at 0010 1110 (named num)
D	Editor vocab	
Editor	A program which allows the user to write code	
IDE	Integrated Development Environment - Software for writing code incorporating an editor, debugging tools, an interpreter and/or compiler	
Pretty printing	A feature of an editor which makes code easier to read by colouring and indenting	
GUI builder	An IDE for developing a graphical user interface	