

Worksheet 1 – Machine code vs High Level languages

1. Explain what is meant by 'machine code.'
 - i. Machine code, also called machine language, is a computer language that is directly understandable by a computer's CPU (central processing unit).
 - ii. It is the only language that a computer can understand.
 - iii. The instructions – opcodes and operands – are represented by strings of bits – 1s and 0s.
2. Explain why other languages were developed to allow humans to program computers.
 - i. Writing and reading a program as a string of 1s and 0s is difficult for a human.
 - ii. It is difficult to memorise all of the instructions as 1s and 0s.
 - iii. The speed of writing, testing and debugging a program is very slow in machine language.
3. (a) Why is 'assembly language' referred to as a 'low level' language?
 - i. The instructions are very similar to those in machine language – there is usually a one-to-one relationship between assembly and machine code instructions.

(b) What are mnemonics and how are they used in assembly language?

 - i. Mnemonics are tools that are designed to help a person's memory. They can be rhymes or phrases e.g. 'Richard of York gave battle in vain' used to help remember the order of the colours of the spectrum – red, orange, yellow, green, blue, indigo and violet.
 - ii. In assembly language the mnemonics are English-like words used to represent the binary opcodes of machine language e.g. the mnemonic ADD is used in assembly language for the opcode 110001011.
 - iii. SUB, MUL, DIV, RLC and RAL are other mnemonics used in assembly language.

(c) What is an 'assembler' used for?

 - i. An assembler translates the symbolic codes (mnemonics) of programs of an assembly language into machine language instructions.
 - ii. It is translated to the machine code version in the ratio of one symbolic instruction to one machine code instruction.
4. (a) What are 'high level languages'?
 - i. High level languages are called 'high-level' because they are closer to human languages and are further removed from machine languages than assembly language.
 - ii. There is no one-to-one relationship between the instructions in a high level language and machine language as there is with assembly language.

(b) List three examples of a high level language.

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