**Isaac A-level Booster – Assembly Language**

**Handout 1 – Evaluating the use of low-level languages - Solution**

Use the Isaac platform to research the advantages and disadvantages of using low-level languages, and record using the table below.

[isaaccomputerscience.org/concepts/sys\_proglang\_low\_level](https://isaaccomputerscience.org/concepts/sys_proglang_low_level)

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| --- | --- |
| Advantages of low-level languages | Disadvantages of low-level languages |
| They allow a programmer to create optimised programs  When a computer system has limited resources (processing power and memory) low-level languages allow a programmer to more directly control how the resources are used | It's more difficult to write programs in low-level: need to have good understanding of hardware  Not portable, specific to a particular instruction set.  No libraries of functions that can be imported  No data structures such as arrays and records. |