**Programming Languages Worksheet**

1. Why are there so many different high level programming languages [1 mark]

High level languages are used for different purposes

1. Explain and compare compilers, interpreters and assemblers [6 marks]

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| --- | --- | --- | --- |
|  | **compiler** | **interpreter** | **assembler** |
| Ads | Faster  No need for distributing source  Don’t need to distribute translator | Good for debugging  Can work on any machine that has an interpreter | Well optimised |
| disads | Create different binaries for different machines | Release the source code  You need to have an interpreter for the platform. | Long codes |

1. Explain why intermediate programming languages are used [ 2 marks]

So that the source code does not need to be released for the same code to be run on different machines that have a virtual machine.