Q1.

**Compiler**

The [Compiler](https://www.geeksforgeeks.org/introduction-to-compilers/) is a translator which takes input i.e., High-Level Language, and produces an output of low-level language i.e. machine or assembly language. The work of a Compiler is to transform the codes written in the programming language into machine code (format of 0s and 1s) so that computers can understand.

* A compiler is more intelligent than an [assembler](https://www.geeksforgeeks.org/introduction-of-assembler/) it checks all kinds of limits, ranges, errors, etc.
* But its program run time is more and occupies a larger part of memory. It has a slow speed because a compiler goes through the entire program and then translates the entire program into machine codes.