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1. Translators are programs written to translate from the source code to the target code. Source code(user code) is the program written by the user before the translation . target code is the equivalent code generated after the translation.

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| Assembler | Compiler | Interpreter |
| It converts programs written in assembly language to machine language. | It converts source code to target program from left to right at once. | It converts source code to target code line by line from left to right. |
| It converts assembly language to machine language. | It checks the whole program then displays all errors. | It displays one error at a time. |
|  - | It is not possible to execute program without fixing the errors. | Programmer should fix error to interpret the next line of code. |
|   - | Execution time is lower/small. | Scanning time is lower/small, but the overall execution time is higher/more. |
| It is used by assembly language. | It is used by languages like c and c++. | It is used by languages like PHP, perl, ruby and python. |

1. There is need for high level programming languages because high level languages serve as an intermediary that is independent of a particular computer and closer to human languages.