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17/SCI01/041

CSC312

Question

List at least 5 differences between a Compiler and an Interpreter.

**Answer**

**Compiler Interpreter**

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| 1. It translates the full source code at a time. | 1. It translates one line of code at a time. |
| 2. It translates one line of code at a time. | 2. Comparatively slower. |
| 3. It uses more memory to perform. | 3. The interpreter uses less memory than the compiler to perform. |
| 4. Error detection is difficult for the compiler. | 4. Error detection is easier for the interpreter. |
| 5. It shows error alert after scanning the full program. | 5. Whenever it finds any error it stops there. |
| 6. Before execution of a program, the compilation is done. | 6. Compilation and execution for a program are done simultaneously. |