**Assignment Title:** Online Assignment 2
**Course Title:** Compiler Construction I
**Course Code:** CSC 312

**Question**
List at least 5 differences between Compiler and Interpreter.

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| COMPILER | INTERPRETER |
| 1. If no error, the compiler will convert source code to machine code.
 | 1. Source statements executed line by line DURING Execution |
| 1. The program code is already translated into machine code. Thus, it code execution time is less.
 | 2. Interpreters are easier to use, especially for beginners. |
| 1. You can't change the program without going back to the source code.
 | 3. Interpreted programs can run on computers that have the corresponding interpreter. |
| 1. Store machine language as machine code on the disk
 | 4. Not saving machine code at all. |
| 1. Compiled code run faster
 | 5. Interpreted code run slower |
| 1. It is based on language translation linking-loading model.
 | 6. It is based on Interpretation Method. |
| 1. Generates output program which can be run independently from the original program.
 | 7. Do not generate output program, so they evaluate the source program at every time during execution. |