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JAVA Programming (Zero to Hero)

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Assignment No :- 1

- Assignment :- Difference betⁿ Interpreter & compiler.

| Interpreter | Compiler |
|---|--|
| 1) Interpreter translates just one statement of the program at a time into machine code. | 1) Compiler scans the entire program & translates the whole of it into machine code at once. |
| 2) An interpreter takes very less time to analyze the source code. However the overall time to execute the process is much slower. | 2) A compiler takes a lot of time to analyze the source code. However the overall time taken to execute the process is much faster. |
| 3) An interpreter does not generate an intermediary code. Hence, an interpreter is highly efficient in terms of memory. | 3) A compiler always generates an intermediary object code. It will need further linking. Hence more memory is needed. |
| 4) Keeps translating the program continuously till the first error is confronted. If any error is spotted, it stops working & hence debugging becomes easy. | 4) A compiler generates the error message only after it scans the complete program & hence test debugging is relatively harder while working with a compiler. |
| 5) Interpreters are used by programming languages like Ruby & Python. | 5) Compilers are used by programming languages like C & C++. |

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