Day 1: Assignment 1

❖ Difference between Interpreter and Compiler:

Interpreter	Compiler
• Translates program one statement at a time	• Scans the entire program and translates it as a whole into machine code.
• Interpreters usually take less amount of time to analyze the source code. However, the overall execution time is comparatively slower than compilers.	• Compilers usually take a large amount of time to analyze the source code. However, the overall execution time is comparatively faster than interpreters.
• No Object Code is generated, hence they are memory efficient.	• Generates Object Code which further requires linking, hence they require more memory.
• Example: Programming languages like JavaScript, Python, Ruby use interpreters.	• Example: Programming languages like C, C++, Java use compilers.