**JAVA PROGRAMMING ZERO TO HERO**

DAY 1: - ASSIGNMENT

***Question no. 1:*** - Difference between compiler and Interpreter.

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| **Compiler** | **Interpreter** |
| * Create the program. * Compile will parse or analyses all of the language statements for its correctness. If incorrect, throws an error * If no error, the compiler will convert source code to machine code. * It links different code files into a runnable program (known as exe) * Run the Program | * Create the Program * No linking of files or machine code generation * Source statements executed line by line DURING Execution |
| The program code is already translated into machine code. Thus, the code execution time is less. | Interpreters are easier to use, especially for beginners. |
| You can’t change the program without going back to the source code. | Interpreted programs can run on computers that have the corresponding interpreter. |
| Compiled code run faster. | Interpreted code run slower. |
| Generates output program (in the form of exe) which can be run independently from the original program. | Do not generate output program. So they evaluate the source program at every time during execution. |
| It takes an entire program. | It takes single line of code. |
| Compliers generates intermediate machine code. | Interpreter never generate any intermediate machine code. |
| Debugging is tough. | Debugging is easy. |