NAME: Okesola Ajibola

Course: CSC312

DEPARTMENT: Computer Science

Mat.No: 17/sci01/064

Assignment: At least 5(five) differences between compiler and interpreter.

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| S/N | INTERPRETER | COMPILER |
| 1. | Translates program one statement at a time | Scans the entire program and translates it as a whole into machine language |
| 2. | Overall execution is slower | Overall execution time is considerably faster |
| 3. | Generates intermediate object code | Generates intermediate object code |
| 4. | It is more memory efficient  | It requires more memory |
| 5. | It continues translating until first error is met which makes debugging easier | Generated error messages after scanning the entire code so debugging is considerably harder |
| 6. | It does not save machine language code | It stores machine language code on a disc |
| 7. | Do not generate output program. so they evaluate the source program at every time during execution. | Generates output program (in the form of exe) which can be run independently from the original program. |