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| **COMPARSION** | **COMPILER** | **INTERPRETER** |
| INPUT | It takes an entire program at a time. | It takes a single line of code or instruction at a time. |
| OUTPUT | It generates intermediate object code. | It does not produce any intermediate object code. |
| WORKING MECHANISM | The compilation is done before execution. | Compilation and execution take place simultaneously. |
| SPEED | Comparatively faster. | Slower. |
| MEMORY | Memory requirement is more due to the creation of the object code. | It requires less memory as it does not create intermediate object code. |
| ERRORS | Display all errors after compilation, all at the same time. | Displays error of each line one by one. |
| ERROR DETECTION | Difficult. | Easier comparatively. |
| PERTAINING PROGRAMMING LANGUAGES | C, C++, C#, Scala, typescript uses complier. | PHP, Perl, Python, Ruby uses an interpreter. |

**[ASSIGNMENT DAY 1]**

**DIFFERNCE BETWEEN COMPILER AND INTERPRETER**