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| Compiler | Interpreter |
| The entire program is checked at once. | Each line gets checked at a time. |
| Errors (if any) are displayed after entire program is checked. | Errors are displayed then and there for each line. |
| More memory is used as object code is created. | Less memory is used as no object code is generated. |
| More efficient but cumbersome to debug. | Les efficient but easier to debug. |

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| C | Python |
| It is difficult to learn. | It is easier to learn. |
| It has faster execution speed. | It has slower execution speed. |
| It finds its applications in the hardware field. | It is a general purpose programming language. |
| It is not an object oriented programming language. | It is an object oriented programming language. |
| It provides the functionality of pointers. | Pointers are not available. |
| It is a compiled language. | It is an interpreted language. |
| It has lesser number of library functions. | It has more number of library functions. |
| It is compulsory to define variables with their data types. | Variable declaration is not needed. |
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