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CSC 310

1. What do you understand by translators

2. Make comparative analysis of the following translators:

a. Assembler

b. Compiler

c. Interpreter

3.Why is there need for high level programming languages.

**Answers**

1. A translator is a programming language processor that translates from source code to target code. Source code is the code written by the user while target code is the equivalent code generated from the translation. It discovers and identifies the error during translation.

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| ASSEMBLER | COMPILER | INTERPRETER |
| Software that converts programs written in assembly language to programs written in machine language. | Software that converts programs written in high level language to programs written in machine language | Software that converts programs written in high level language program to programs written in machine language |
| The output generated by assembler is the object code or machine code understandable by the computer. | Generates intermediate object code | No intermediate object code is generated. |
| Uses assembly language | Examples: C++, C#, Java | Examples: Ruby, python, perl. |

1. It will be easier to read, write, debug.