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COURSE: CSC 310(COMPUTER ARCHITECTURE and ORGANISATION).

Question.

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.

Solution.

1. A translator is a programming language processor that converts a computer program from one language to another. It takes a program written in source code and converts it into machine code.

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| Assembler | Compiler | Interpreter |
| Software that converts programs written in assembly language into machine language | Software that converts programs written in high-level language into machine language | Software that translates a high-level language program into machine language |
| Convert assembly language program to machine language | Convert the whole high-level language program to machine language at a time | Convert the high-level language program to machine language line by line |
| Used by assembly language | Used by C, C++ | Used by Ruby, Perl, python ,PHP |

To enable writing of programs easier to write, debug, and maintain