

RESEARCH WORK – 2

1. What are Translators in Programming language?

Translators in programming language are software tools that convert source code written in one programming language into an equivalent program written in another programming language.

2. What is Assembler, Compiler and Interpreter?

- **Compiler:** A compiler is a software tool that translates the entire source code of a program written in a high-level programming language into an equivalent program in machine code (low-level language) that can be executed by the computer's processor.
- **Interpreter:** An interpreter is a software tool that translates and executes source code of a program line by line in real-time. It does not produce an executable file as a compiler does, but instead, it interprets the source code and executes it directly.
- **Assembler:** An assembler is a software tool that translates assembly language code into machine code. Assembly language is a low-level programming language that is specific to a particular computer architecture.

3. What are IDE's ?

IDE stands for Integrated Development Environment, which is a software application that provides a comprehensive environment for software development. IDEs are designed to streamline the software development process by providing a set of tools and features that help developers write, test, and debug code more efficiently.

4. Examples for IDE's or Compilers for C programming ?

- Turbo C/C++
- PyCharm
- Visual Studio
- Eclipse
- Android Studio
- GCC (GNU Compiler Collection).