# **5.REQUIREMENTS**

## **5.1 SOFTWARE REQUIREMENTS:**

· CodeBlocks (20.03) is used for C programming.

The entire project is divided into various ***functions*** so that the length of the program can be reduced. It helps to locate and isolate any fault. It also facilitates top-down modular programming style, the high-level logic of the overall problem is solved and then the details of each lower-level program is addressed.

***Switch cases*** used here which enables the programmer to compare a number of values of a variable by a single switch statement and using a number of cases. It makes error detection easier as the program is divided into modules through these cases. It is generally used when many values for a variable are to be compared.

***File Handling*** concept is also used in this program in order to provide proficiency for reusability and large storage capacity. By the application of file handling methodologies we can save time and can easily transfer the contents of a file system to another without losing the data.

· Compiler: GNU GCC Compiler.

The compiler is converting the high level programming languages into machine code.

## 5.2 HARDWARE REQUIREMENTS/SPECIFICATION:

· Operating System: Windows 8 or above

· Processor: Intel core (32-bit or above)

· RAM: 8 GB or above

· Input devices: Keyboard & Touchpad (Mouse)

· Output devices: Standard Monitor