## **Practical No. 2: Implementing a C Program using Vi/Terminal Editor**

### **Aim:**

To write and execute a C program using the terminal-based editor and compile it using gcc.

### **Commands Used and Description:**

1. **touch hello.c**
   * Creates an empty file named hello.c.
2. **cat >> hello.c**
   * Opens the file for appending. Used here to type the C code directly.

**Sample Code Written:** c  
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#include <stdio.h>

int main()

{

printf("Hello World!!\n");

return 0;

}

1. **gcc --version**
   * Displays the installed version of the GCC compiler.
   * Example Output: gcc (Ubuntu 13.2.0-4ubuntu3) 13.2.0
2. **gcc hello.c**
   * Compiles the C program. Generates a default executable named a.out.
3. **./a.out or ./test**
   * Executes the compiled output file.
   * If compiled with -o option like gcc hello.c -o test, run using ./test.

### **Output:**

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Hello World!!

### **Errors Encountered:**

* Initially: bash: ./hello: No such file or directory  
   *Resolved by compiling with -o test and running ./test.*

### **Conclusion:**

The C program was successfully written using the terminal, compiled using GCC, and executed to display the message "Hello World!!". This practical demonstrated the basic workflow of writing, compiling, and executing C code without using a GUI editor.