**README for Compiling C Code to DLL/SO**

This document provides instructions for compiling a C source file into a DLL (Dynamic Link Library) or SO (Shared Object) file using R.

**Prerequisites**

Before you begin, ensure that you have the following installed on your system:

* R (version compatible with your system)
* Rtools (for Windows users) or a suitable build environment for Linux/MacOS
* A C compiler (such as GCC)

**Compilation Instructions**

Follow these steps to compile the C code:

1. **Open a Terminal or Command Prompt**:
   * For Windows, you can use the Command Prompt or R's terminal.
   * For MacOS or Linux, open the Terminal.
2. **Navigate to the Source Directory**: Change your directory to where the C source file is located. Use the following command:
3. cd OneDrive\Desktop\GRAMI\TestMatrixPython\CodeC

**Note**: Adjust the path if necessary to point to the correct location of your C source file (RSCM\_v5.c).

1. **Compile the C Source File**: Use the following command to compile the C source file into a shared library:
2. R CMD SHLIB RSCM\_v5.c
3. **Check for Compilation Success**: After running the command, check the terminal for any error messages. If the compilation is successful, a shared library file (either RSCM\_v5.dll for Windows or RSCM\_v5.so for Linux/Mac) will be created in the same directory.