## INTRODUCTION

**Problem Statement : Reverse a string using a Linux device driver for a character device that reverses strings that is given to it.**

**Project Scope : The main goal here is of the driver is to reverse the character string. For example if we write - > echo “hello” , the output should come as “olleh”. A character device is used. In this we create a driver, write the code for it, compile the driver, load and unload the driver.**

**System Requirements :**

|  |  |
| --- | --- |
| **CPU Type** | **Pentium 4 or higher; 2 GHz or higher** |
| **Memory/RAM** | **1 GB minimum, up to the system limit** |
| **Hard Disk** | **4 GB minimum** |
| **Other** | **To run the Directory Server using port numbers less than 1024, such as the default port 389, you must setup and start the Directory Server as root, but it is not necessary to run the Directory Server as root.** |

**Conclusion:**

* **You can now create your own device such as /dev/MyDev, which you can write information to and read information from. This is important, as it provides a bridge between the Linux user space and the Linux kernel space. It enables you to develop advanced drivers, such as communication devices, which can be controlled by C code that is running in user space.**
* **You can appreciate why it is important to be aware of the synchronization issues that can arise with kernel module programming.**