# Assignment: Automate AT Test Sequence and Document the Flow

## 1. Objective

To automate a sequence of AT commands using an emulator or an external automation tool and document the workflow, including unsupported command handling.

## 2. Tools Used

• AT Emulator: CelerSMS

• Automation Tool: AutoHotkey (used to simulate keyboard input as CelerSMS does not support internal scripting)

## 3. Automation Method

Since CelerSMS does not provide a built-in scripting interface, automation was implemented using AutoHotkey to send the AT commands sequentially with timing delays. Unsupported commands were included deliberately to observe error handling.

## 4. AutoHotkey Script Example

(Note: Update the file path if needed)

SetTitleMatchMode, 2  
Run, C:\Path\To\CelerSMS.exe  
WinWaitActive, CelerSMS  
Sleep, 2000  
Send, AT{Enter}  
Sleep, 1000  
Send, ATI{Enter}  
Sleep, 1000  
Send, AT+CGDCONT=1,"IP","internet"{Enter}  
Sleep, 1000  
Send, AT+QIOPEN=1,0,"TCP","example.com",80,0,0{Enter}

## 5. Documented Test Sequence and Observations

|  |  |  |
| --- | --- | --- |
| Step | Command Sent | Response Observed |
| 1 | AT | OK |
| 2 | ATI | Modem information displayed |
| 3 | AT+CGDCONT=1,"IP","internet" | ERROR |
| 4 | AT+QIOPEN=1,0,"TCP","example.com",80,0,0 | ERROR |

## 6. Manual Flow Documentation

Since no built-in scripting logs were available, the command flow was manually recorded as follows:

1. Start AutoHotkey script.  
2. Emulator launched automatically.  
3. AT sent — response `OK`.  
4. ATI sent — response with modem information.  
5. AT+CGDCONT...sent — response ERROR indicating unsupported command.  
6. AT+QIOPEN... sent — response ERROR indicating unsupported command.  
7. Script ended.

## 7. Conclusion

CelerSMS supports only a limited set of basic AT commands. AutoHotkey allowed sequential automation and made it possible to confirm which commands are unsupported. Manual observation and logging were required to document the process and results, as the emulator does not provide automated scripting output.