# CelerSMS AT Emulator Assignment - Task 9: Automation

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# Task 9: Automation of AT Commands Using Auto-Hotkey

This section demonstrates the automation of AT command execution in the CelerSMS AT Emulator using **AutoHotkey (AHK)**, a lightweight automation scripting tool for Windows.

## Objective

Automate the following AT commands using keyboard macros:

- AT
- ATI
- AT+CSQ
- AT+CPIN?

#### 1. Tool Used

- AutoHotkey v1.1.36
- Windows 10
- CelerSMS AT Emulator (https://www.celersms.com/at-emulator.htm)

## 2. AHK Script File (test\_macro.ahk)

```
Listing 1: AHK script to simulate AT command sequence
```

```
^j:: ; Ctrl + J triggers the command sequence
Send AT{Enter}
Sleep 1000
Send ATI{Enter}
```

```
Sleep 1000
Send AT+CSQ{Enter}
Sleep 1000
Send AT+CPIN?{Enter}
return
```

# 3. Execution Steps

- 1. Open the CelerSMS AT Emulator in a browser.
- 2. Run the script by double-clicking test\_macro.ahk.
- 3. Focus the emulator input area.
- 4. Press Ctrl + J.
- 5. The commands are automatically sent with delays in between.

### 4. Screenshots

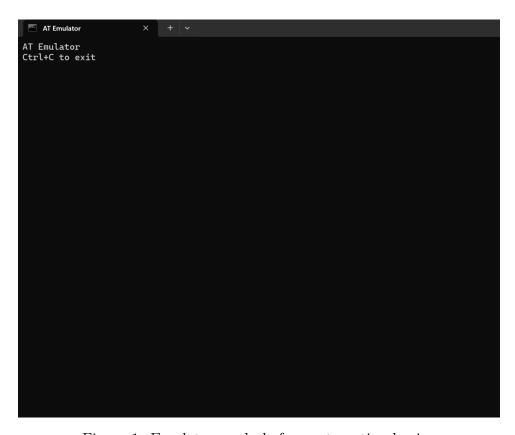


Figure 1: Emulator ready before automation begins



Figure 2: Command sequence successfully executed using AHK

### 5. Notes

- The emulator must be the active window for AHK to work correctly.
- Delay intervals may be adjusted based on system speed or emulator latency.
- This approach is useful for demo/testing where API-level scripting is unavailable.

## 6. Conclusion

While the CelerSMS AT Emulator lacks a built-in scripting interface, automation is achievable using external tools like AutoHotkey. This method simulates a real-world AT testing script and is useful for repetitive test workflows or training.