Assignment 10

Log of the workflow

Step	Command	Expected Response	Actual Response	Notes
1	AT	OK	OK	Basic check passed
2	AT+CSQ	+CSQ: x,y + OK	+CSQ: 20,99	Good signal
3	AT+CMGF=1	OK	OK	SMS mode set
4	AT+CMGS="12345"	> → then message + Ctrl+Z → +CMGS + OK	As expected	Message sent
5	AT+CMGR=1	+CMGR: ... + message text + OK	As expected	Message read (if supported)

Summary

In this assignment, I executed a complete set of AT commands to simulate a GSM-based SMS communication workflow using the CelerSMS emulator. The process included checking modem status, verifying signal strength, switching to text mode, sending an SMS, and attempting to read it.
- Commands AT, AT+CSQ, AT+CMGF=1, and AT+CMGS worked as expected.

- AT+CMGR=1 returned an error, indicating inbox read functionality is not implemented in the emulator.

Despite this limitation, the test confirms my understanding of standard AT command sequences used in real-world GSM applications for SMS operations.

Output

```
AT Emulator
Ctrl+C to exit
AT

OK
AT+CSQ

+CSQ: 21,0

OK
AT+CMGF=1

OK
AT+CMGS="12345"
>Hello I am Melvin^Z

+CMGS: 1

OK
AT+CMGR=1

ERROR
|
```