

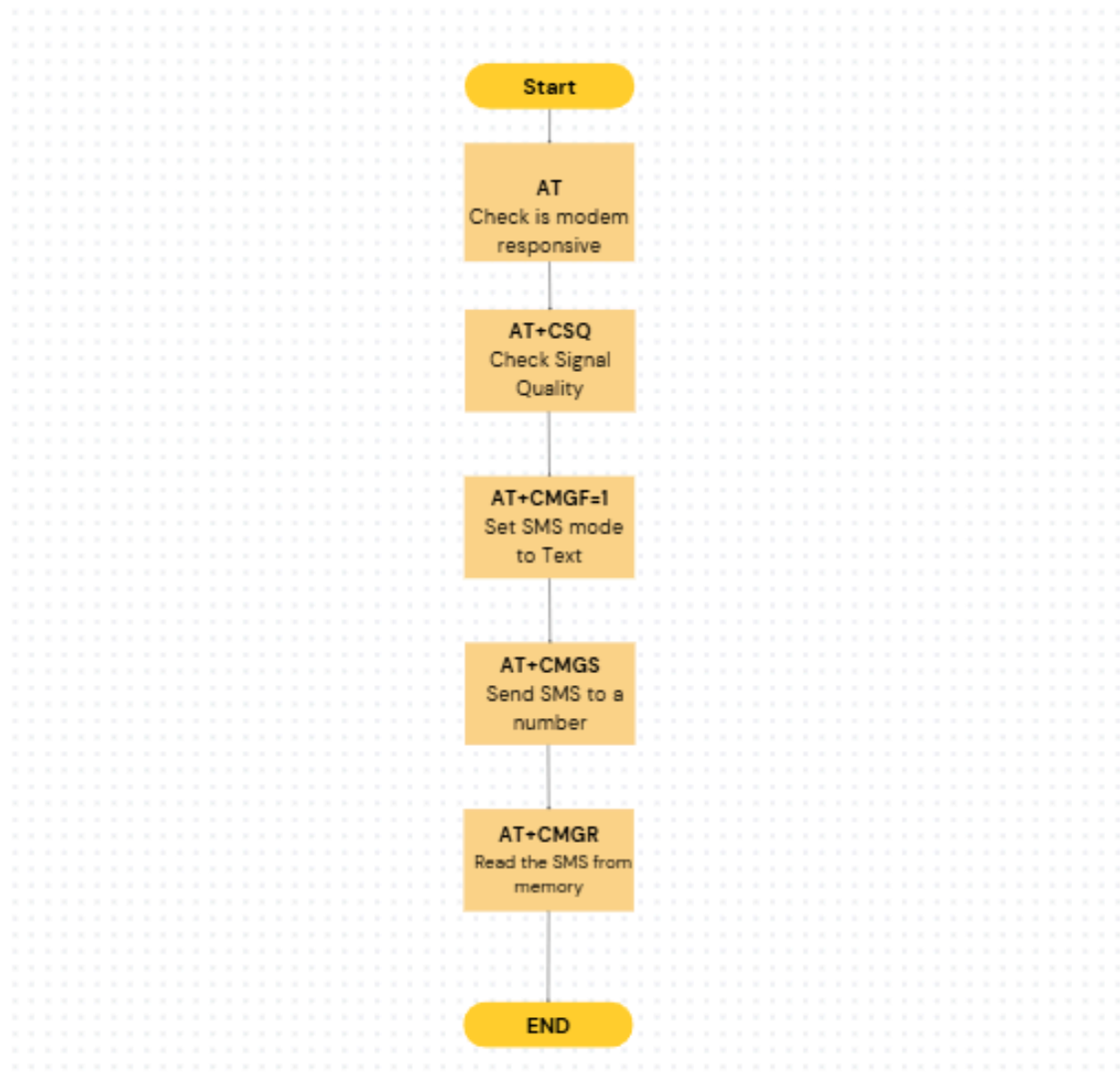
Assignment 10: Final Evaluation – AT Command Sequence Simulation

Objective:

Complete the full scenario simulation using the CelerSMS emulator for the following AT command sequence:

AT → CSQ → CMGF → CMGS → CMGR.

Workflow:

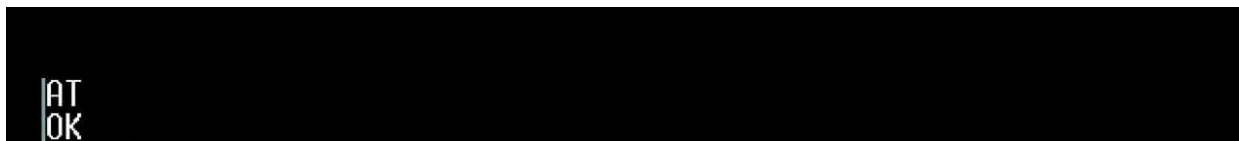


Command Log Sheet:

Step	Command	Expected Response	Actual Response	Notes
1	AT	OK	OK	The module is responsive.
2	AT+CSQ	+CSQ: <rss>, <ber>	+CSQ: 12,99	Signal strength OK.
3	AT+CMGF=1	OK	OK	SMS mode set to text successfully.
4	AT+CMGS="+91xxxxxxx"	> prompt for message	Message sent + +CMGS: 58 OK	SMS successfully sent.
5	AT+CMGR=1	+CMGR: "REC READ", ...	+CMGR: "REC READ", "+91xxxx", "25/07/11,10:45:07+22" SMS RECEIVE TEXT	Message "SMS RECEIVE TEST" and "HAPPY TESTING" sent from the mobile are retrieved & verified.

Screenshots:

step1_AT.png



step2_CSQ.png

```
AT
OK
AT+CSQ
+CSQ: 12,99
```

step3_CMGF.png

```
AT
OK
AT+CSQ
+CSQ: 12,99

OK
AT+CMGF=1
OK
```

step4_CMGS.png

```
AT
OK
AT+CSQ
+CSQ: 12,99

OK
AT+CMGF=1
OK
AT+CMGS="+918281261746"
> CAULI SMS TEST

+CMGS: 58
```

step5_CMGR.png

```
AT
OK
AT+CSQ
+CSQ: 12,99

OK
AT+CMGF=1
OK
AT+CMGS="+918281261746"
> CAULI SMS TEST

+CMGS: 58

OK
AT+CMGR=1
OK
AT+CMGL="ALL"
+CMGL: 0,"REC UNREAD","+919496914786",,"25/07/11,10:54:07+22"
SMS RECEIVE TEST

OK
AT+CMGR=0
+CMGR: "REC READ","+919496914786",,"25/07/11,10:54:07+22"
SMS RECEIVE TEST

OK
AT+CMGR=1
+CMGR: "REC UNREAD","+919496914786",,"25/07/11,10:55:28+22"
HAPPY TESTING
```

Summary Page:

- Successfully executed all commands using the **Cavli C10QM real module**.
- Verified signal strength, set SMS text mode, sent and read an SMS.
- Faced minor delays in message registration but resolved by waiting a few seconds after network attach.
- Commands unsupported by the emulator (like actual SMS delivery) worked perfectly on real hardware.