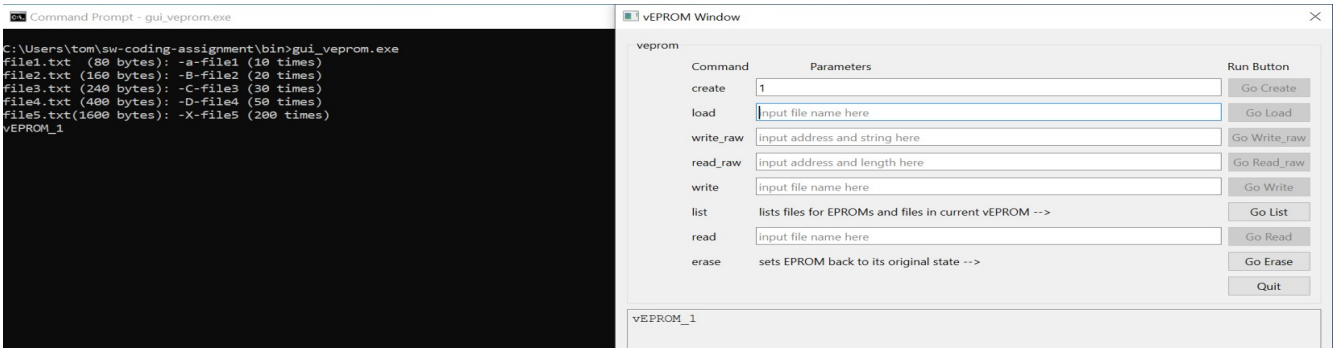
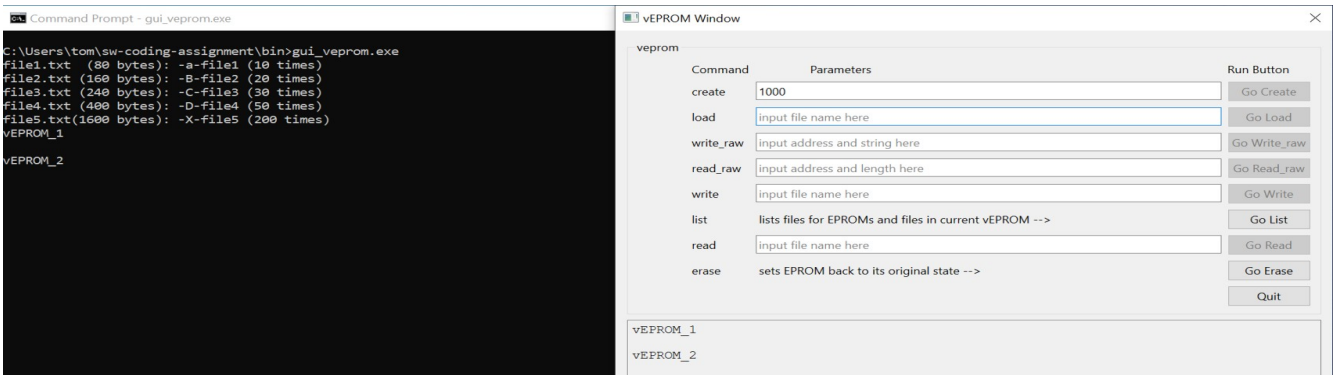
1) create EPROM with 1, 1000, -1, 0, 1001, ABC, 10 20 (1 to 1000 in range, others are out of range or wrong parameter)

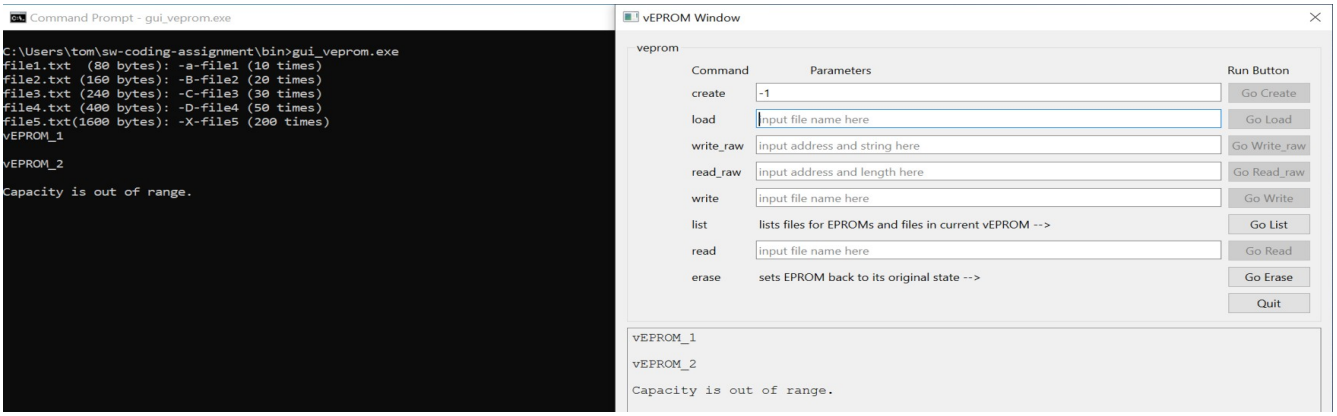
a) create first EPROM with capacity of 1k
Input 1 in the parameters field for “create” command enabling "Go Create" button, and
Click "Go Create" button
Expected: vEPROM_1 (file name for the first EPROM) displayed in gui Window and cmd terminal



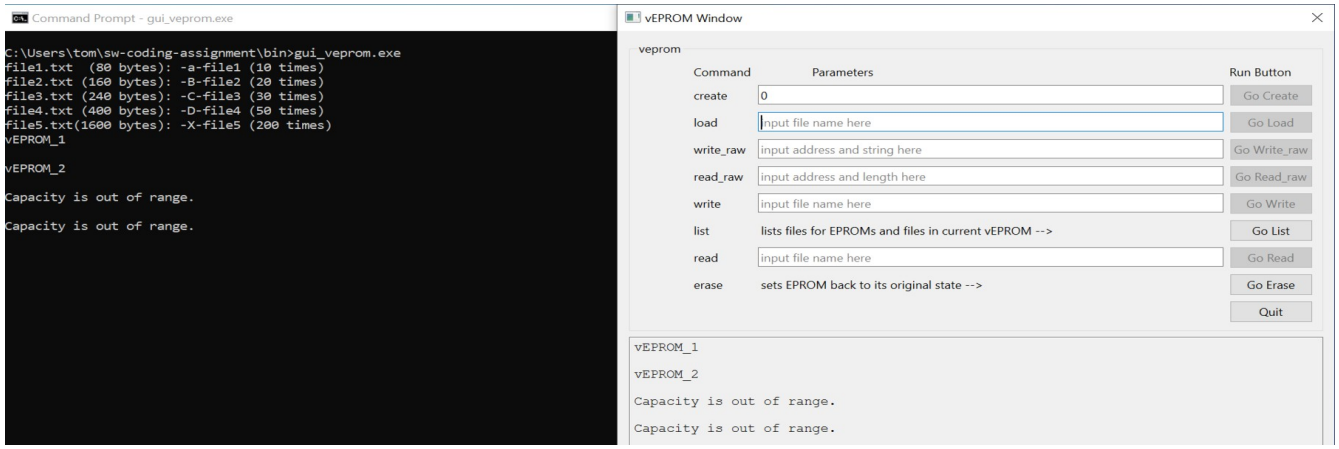
b) create second EPROM with capacity of 1000k
Input 1000 in the parameters field for “create” command enabling "Go Create" button, and
Click "Go Create" button
Expected: vEPROM_2 (file name for the second EPROM) displayed in gui Window and cmd terminal



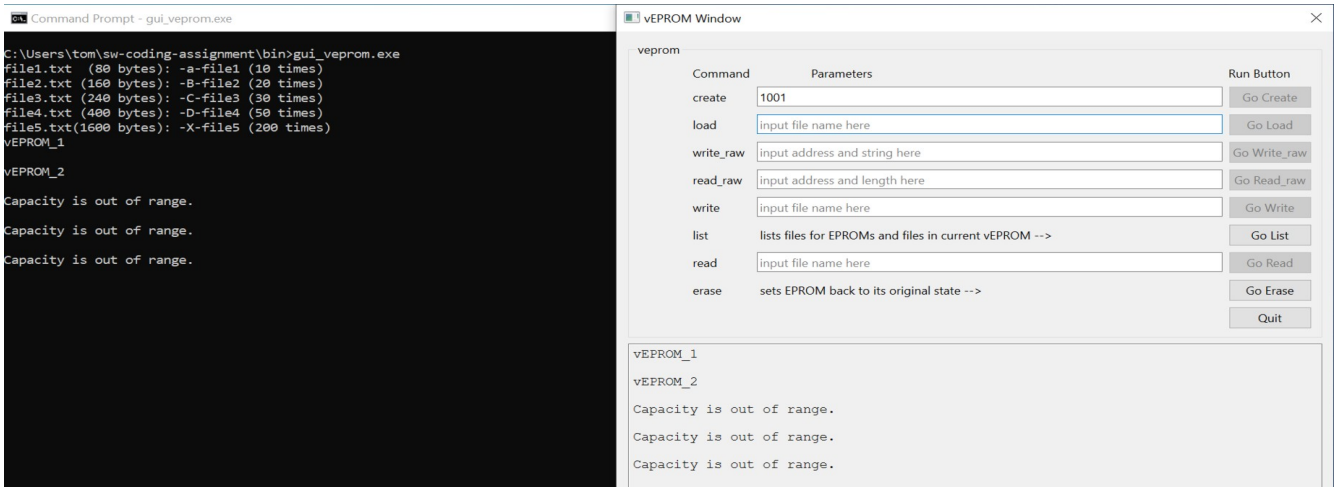
c) create EPROM with capacity of -1k
Input -1 in the parameters field for “create” command enabling "Go Create" button, and
Click "Go Create" button
Expected: “Capacity is out of range” displayed in gui Window and cmd terminal



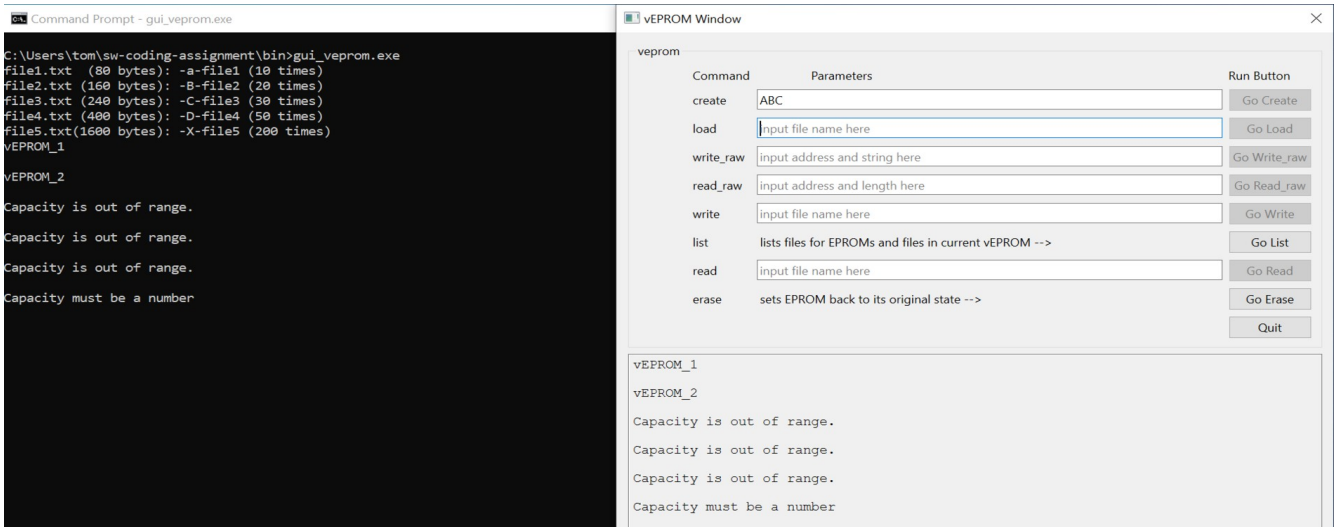
d) create EPROM with capacity of 0k
Input 0 in the parameters field for “create” command enabling "Go Create" button, and
Click "Go Create" button
Expected: “Capacity is out of range” displayed in gui Window and cmd terminal



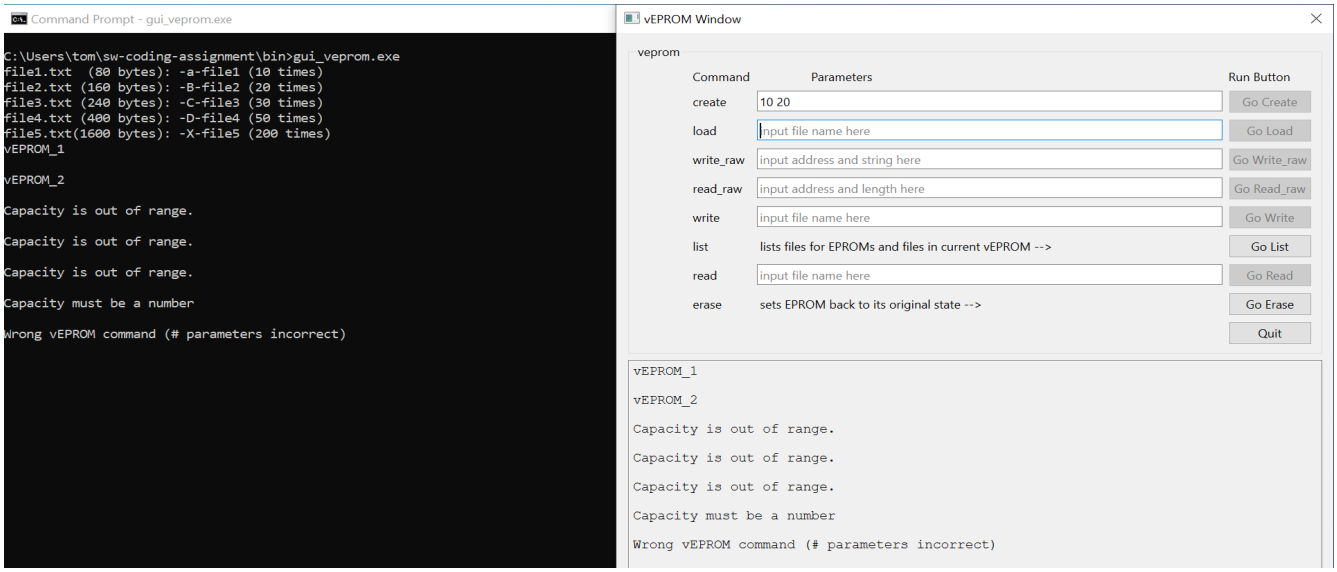
e) create EPROM with capacity of 1001k (note: MAX capacity is 1000k)
Input 1001 in the parameters field for “create” command enabling "Go Create" button, and
Click "Go Create" button
Expected: “Capacity is out of range” displayed in gui Window and cmd terminal



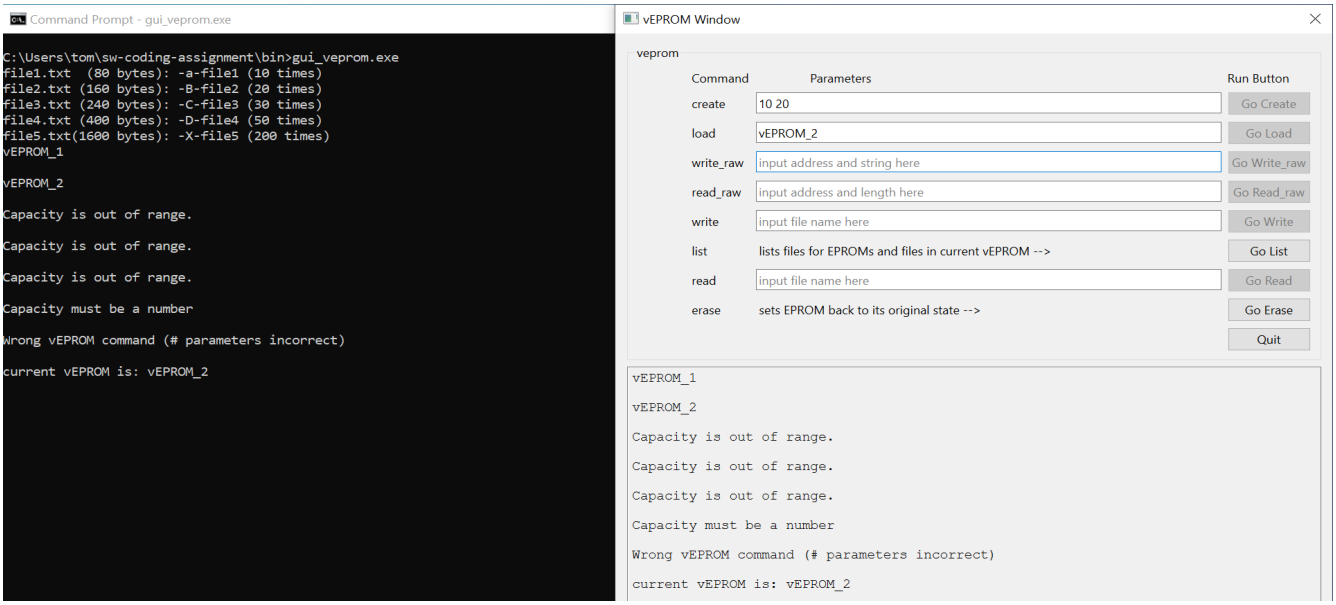
f) create EPROM with ABC
Input ABC in the parameters field for “create” command enabling "Go Create" button, and
Click "Go Create" button
Expected: “Capacity must be a number” displayed in gui Window and cmd terminal



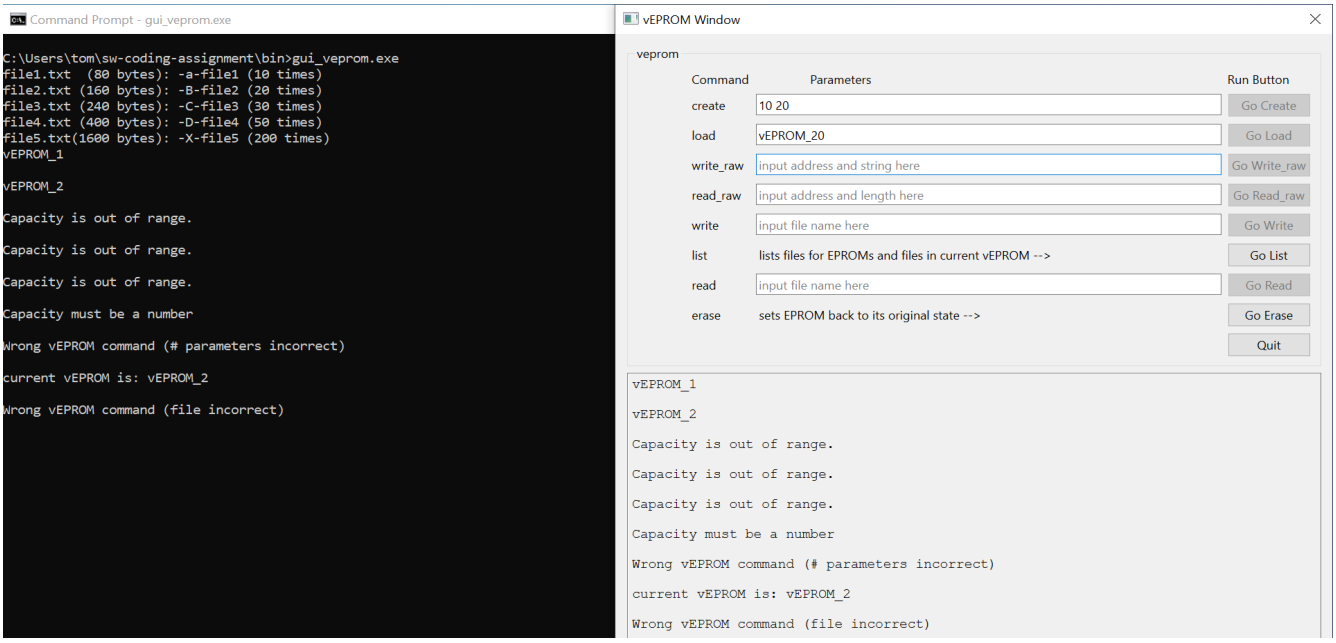
g) create EPROM with 10 20
Input 10 20 in the parameters field for “create” command enabling "Go Create" button, and
Click "Go Create" button
Expected: “Wrong vEPROM command (# parameters incorrect)” displayed in gui Window and cmd terminal



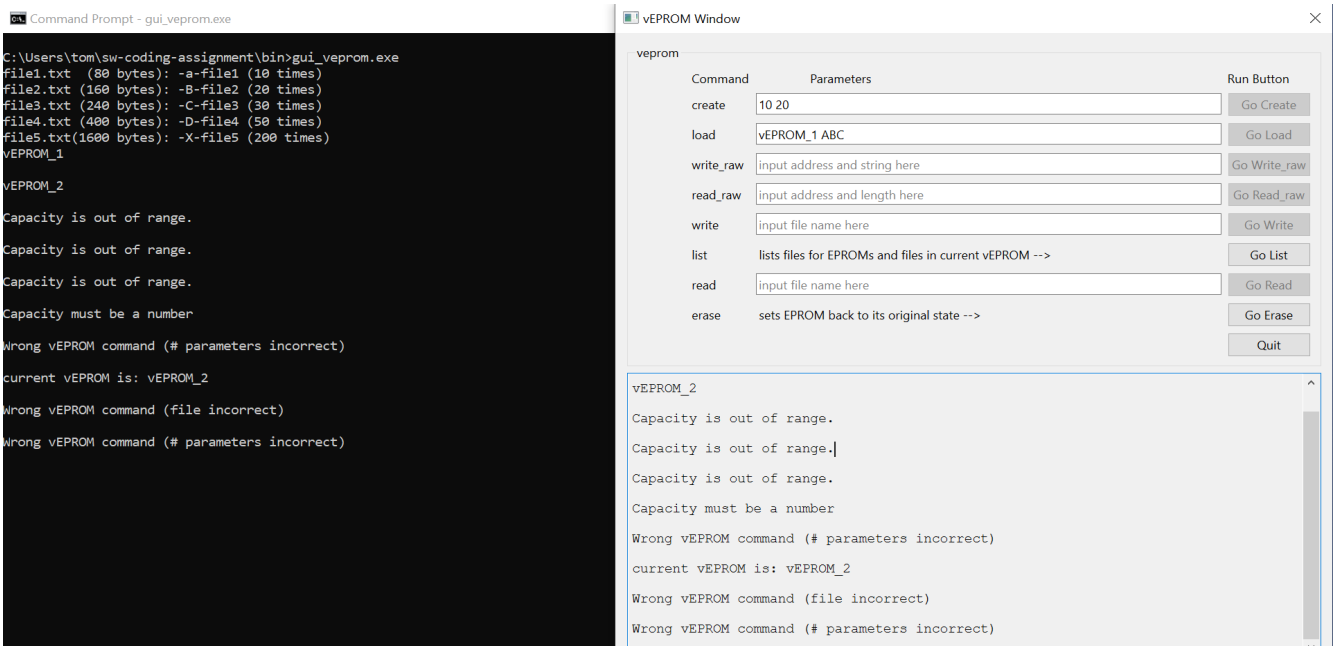
2) load eprom-file with vEPROM_2, vEPROM_20, vEPROM_1 ABC, 11
a) select the second one (vEPROM_2) created as current EPROM
Input vEPROM_2 in the parameters field for “load” command enabling “Go Load” button, and Click "Go Load" button
Expected: “current vEPROM is: vEPROM_2” displayed in gui Window and cmd terminal



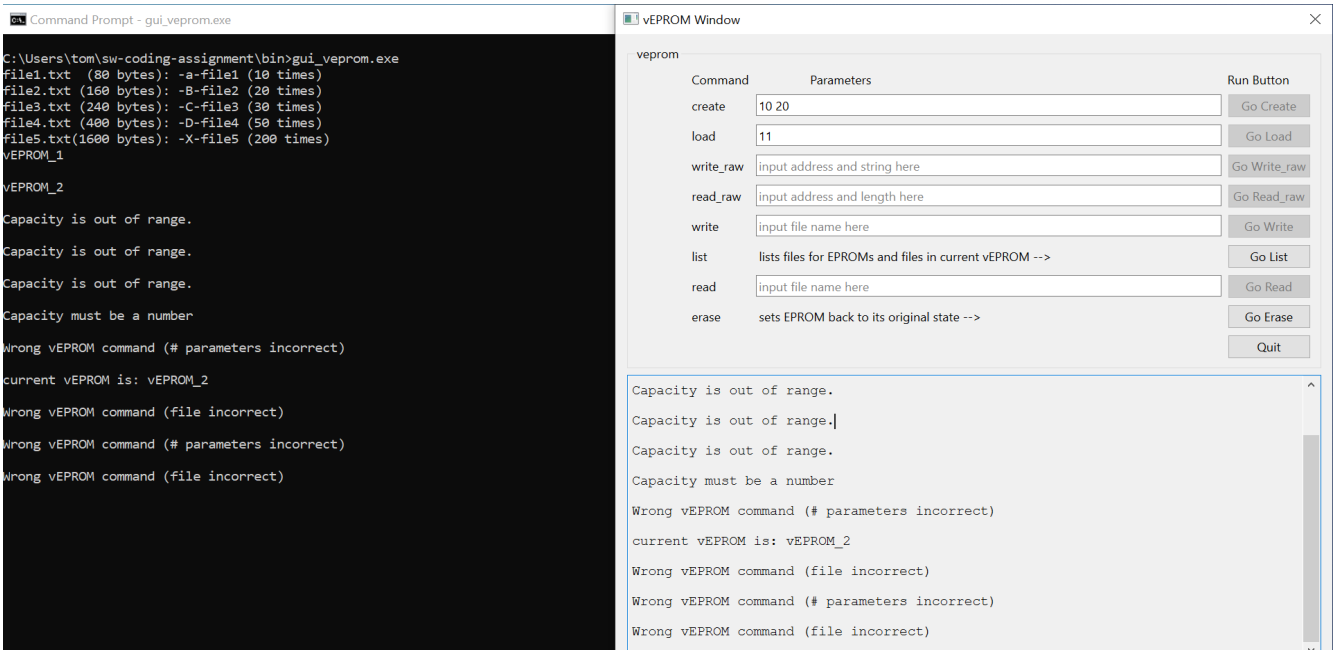
b) select vEPROM_20 (not created) as current EPROM
Input vEPROM_20 in the parameters field for “load” command enabling “Go Load” button, and Click "Go Load" button
Expected: “Wrong vEPROM command (file incorrect)” displayed in gui Window and cmd terminal



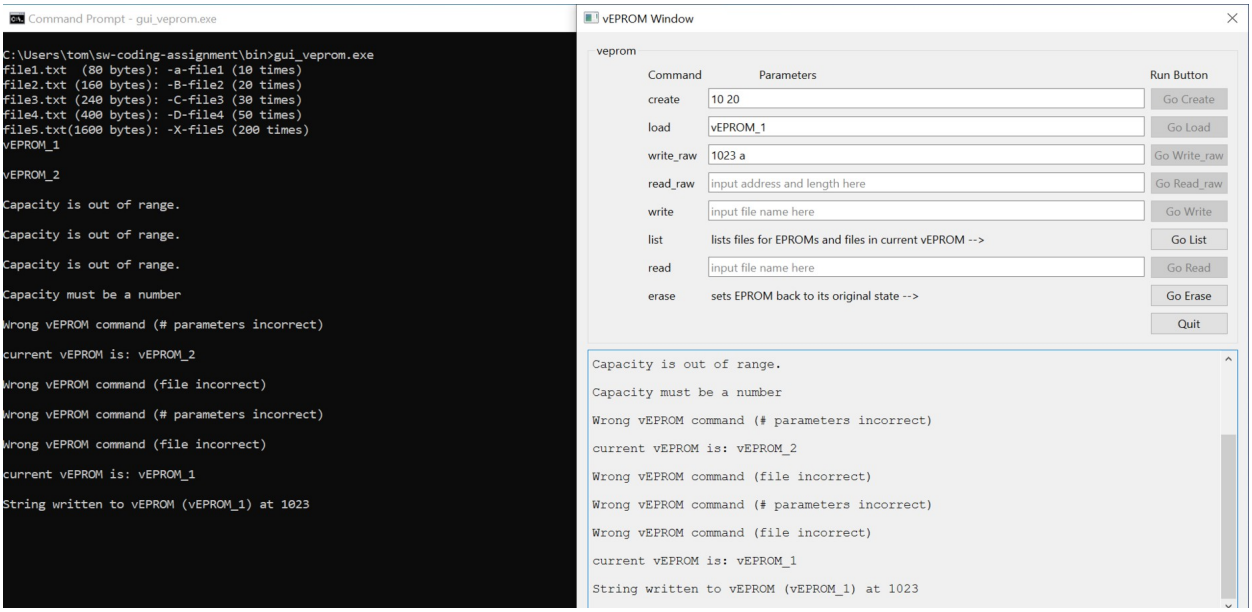
c) select vEPROM_1 (created) + ABC as current EPROM
Input vEPROM_1 ABC in the parameters field for “load” command enabling “Go Load” button, and Click "Go Load" button
Expected: “Wrong vEPROM command (# parameters incorrect)” displayed in gui Window and cmd terminal



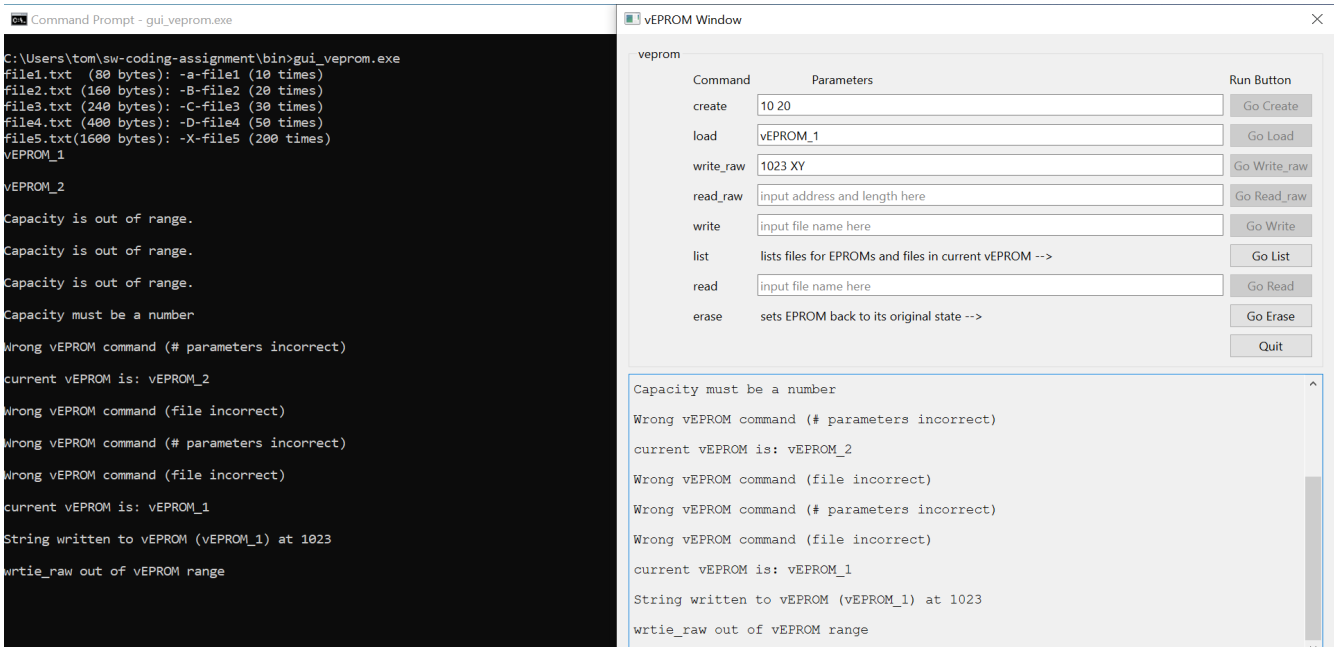
d) select 11 as current EPROM
Input 11 in the parameters field for “load” command enabling “Go Load” button, and
Click "Go Load" button
Expected: “Wrong vEPROM command (file incorrect)” displayed in gui Window and cmd terminal



3) write_raw address string (to vEPROM_1 of 1k capacity) for 1023 a, 1023 XY, -10 XY, 10 XY ABC
a) select the first one (vEPROM_1) created as current EPROM and
write string a at 1023 (last byte of EPROM):
Input: “1023 a” in the parameters field for “write_raw” command enabling “Go Write_raw”, and Click "Go Write_raw" button
Expected: “String written to vEPROM (vEPROM_1) at 1023” displayed in gui Window and cmd terminal.
String a is written to the current EPROM (vEPROM_1) at 1023.

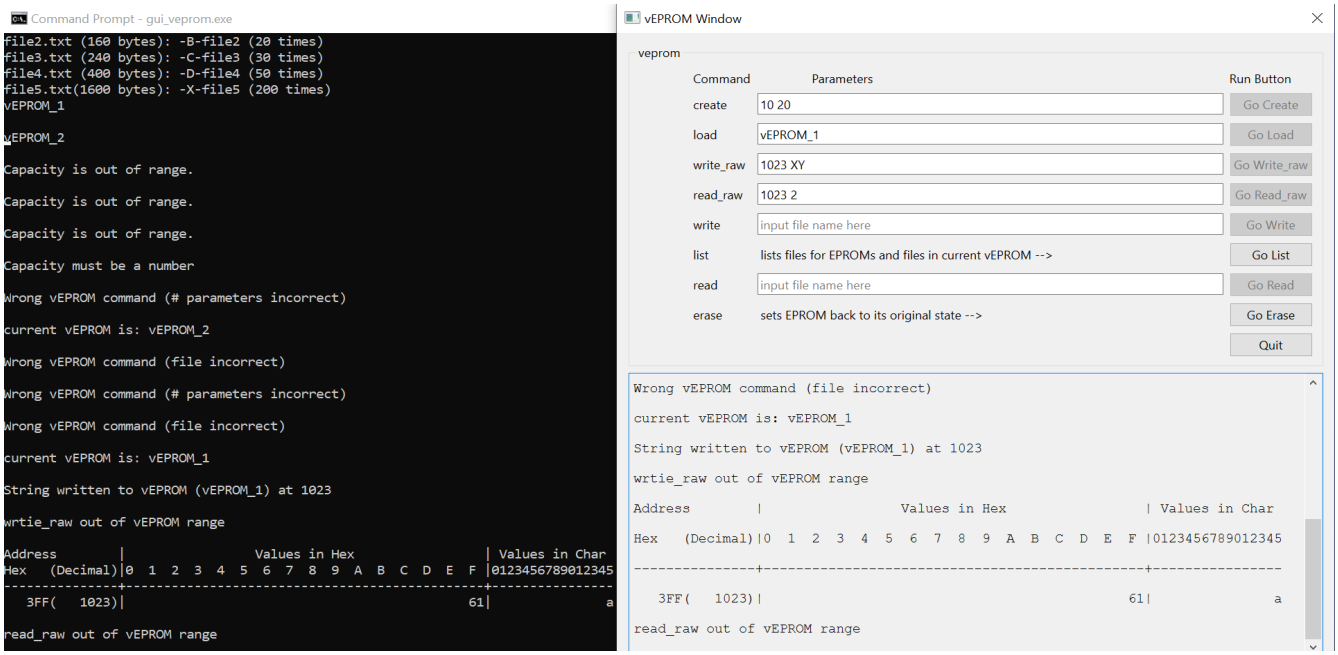


b) write string XY at 1023 (last byte of EPROM):
Input: “1023 XY” in the parameters field for “write_raw” command enabling “Go Write_raw”, and Click "Go Write_raw" button
Expected: “write_raw out of vEPROM range” displayed in gui Window and cmd terminal.
String a is still at 1023.

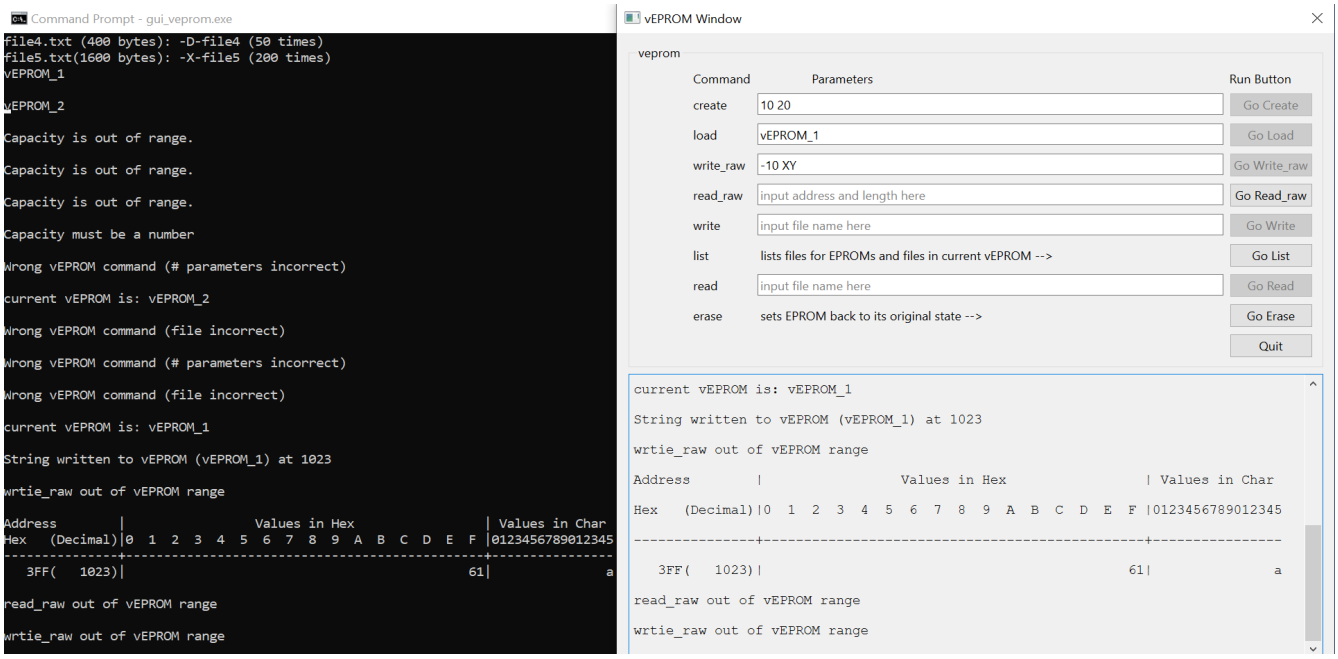


c) read 1 byte at address 1023 from the current EPROM (vEPROM_1)
Input “1023 1” in the parameters field for “read_raw” command enabling “Go Read_raw”, and Click "Go Read_raw" button
Expected: 1 byte from address 1023 is displayed in Hex and Char.
String a at address 1023 is displayed in Hex and Char.

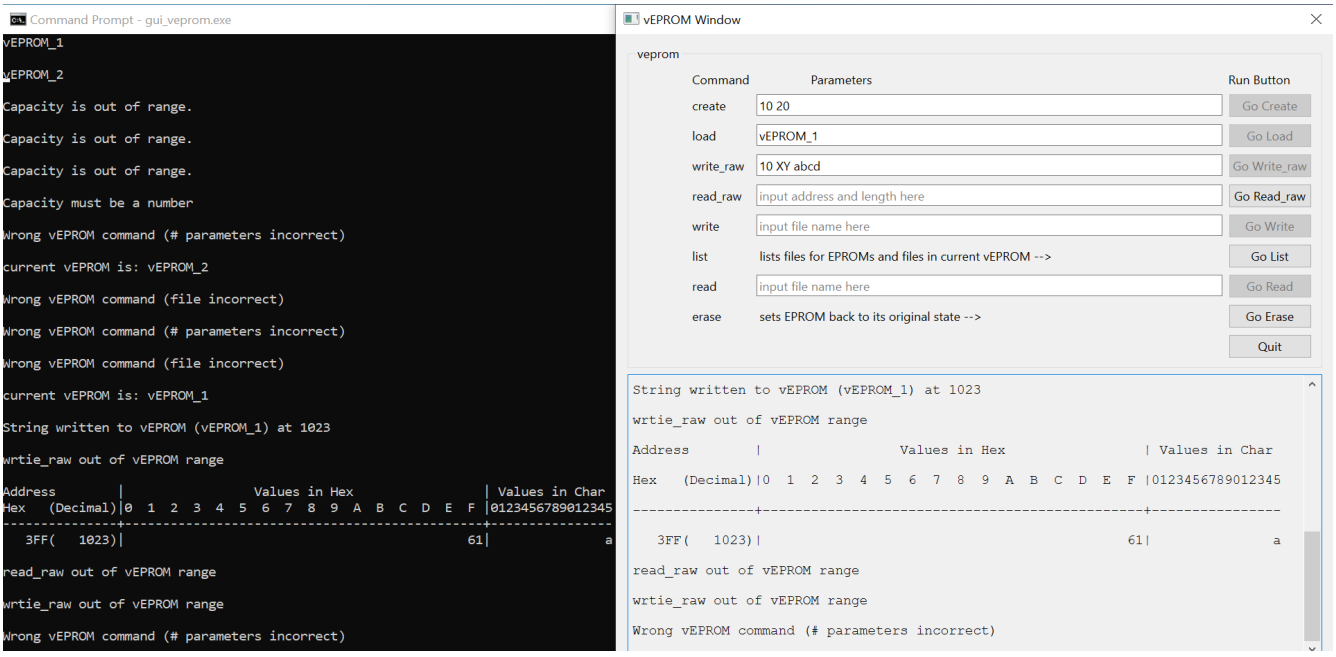
d) read 2 bytes at address 1023 from the current EPROM (vEPROM_1)
Input “1023 2” in the parameters field for “read_raw” command enabling “Go Read_raw”, and Click "Go Read_raw" button
Expected: “read_raw out of vEPROM range” displayed in gui Window and cmd terminal.



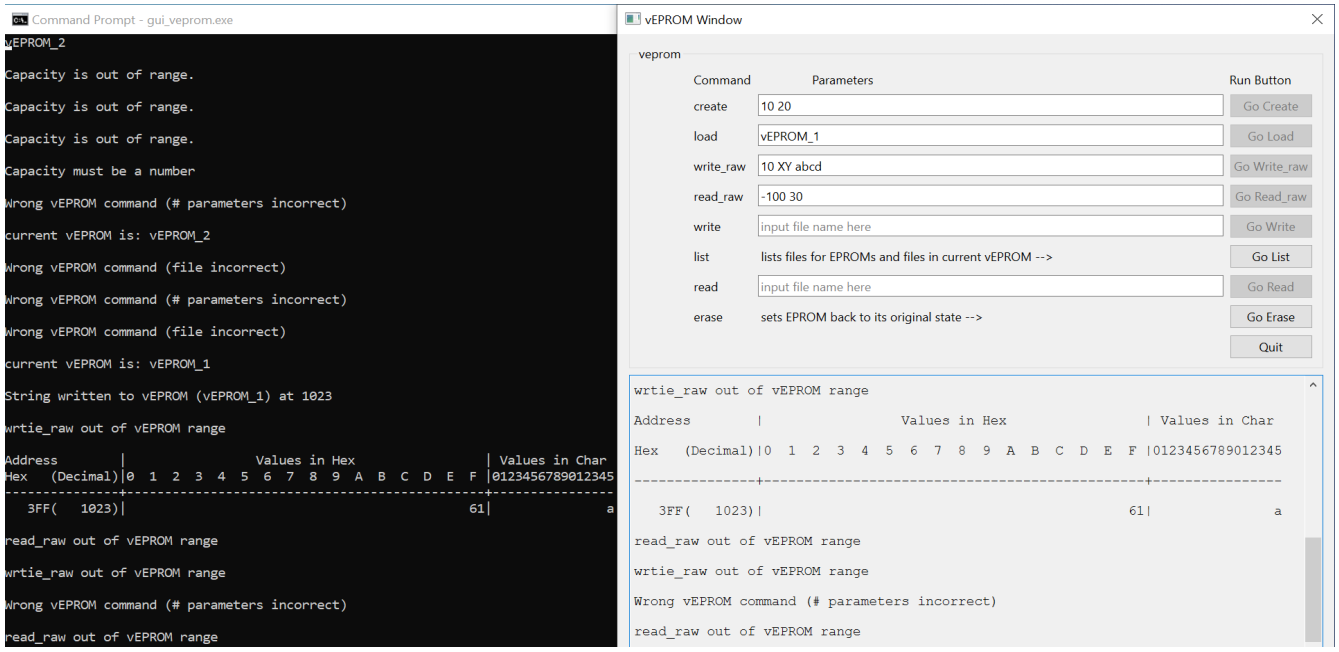
e) write string XY at -10:
Input: “-10 XY” in the parameters field for “write_raw” command enabling “Go Write_raw”, and Click "Go Write_raw" button
Expected: “write_raw out of vEPROM range” displayed in gui Window and cmd terminal.



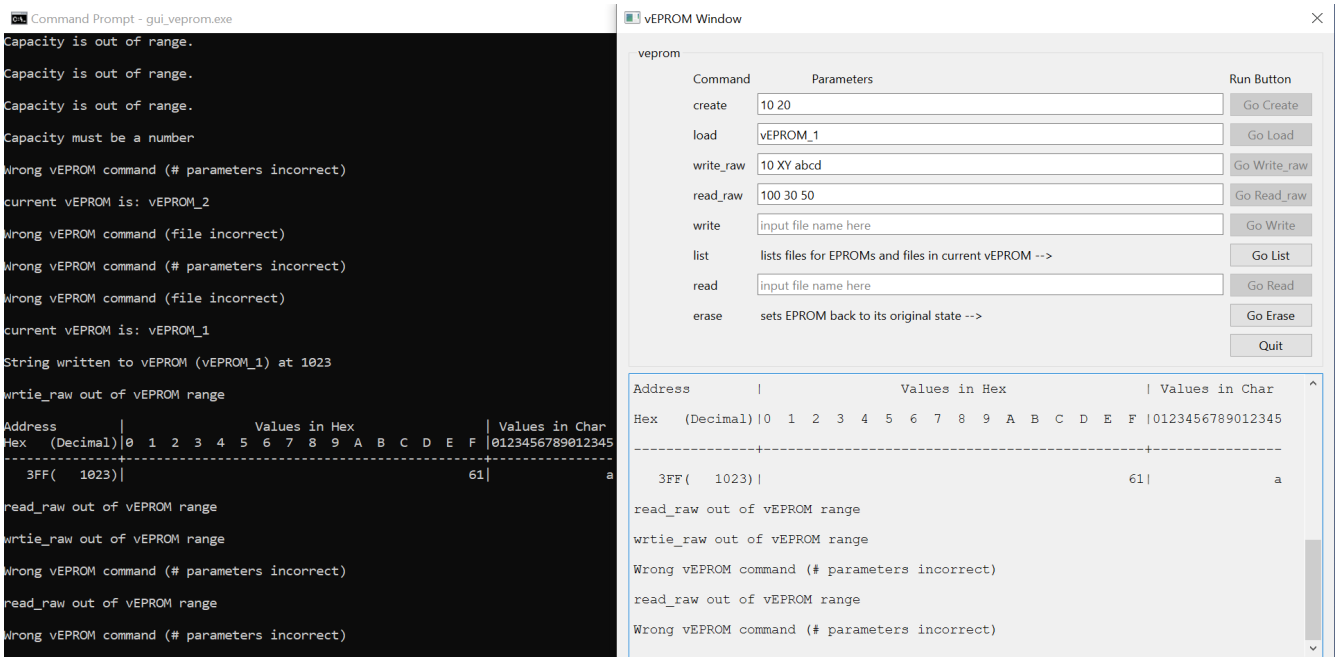
f) write string XY abcd at 10:
Input: “10 XY abcd” in the parameters field for “write_raw” command enabling “Go Write_raw”, and Click "Go Write_raw" button
Expected: “Wrong vEPROM command (# parameters incorrect)” displayed in gui Window and cmd terminal.



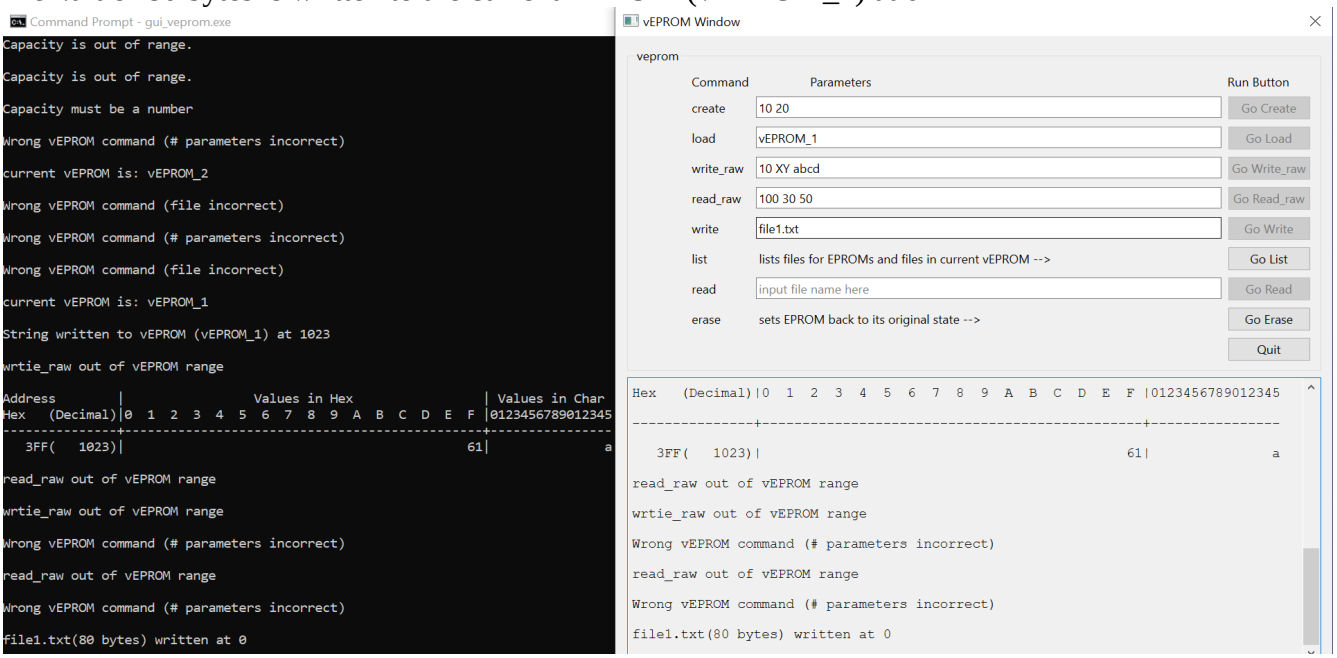
4) read_raw address length for -100 30, 100 30 50
a) read 30 bytes at address -100 from the current EPROM (vEPROM_1)
Input “-100 30” in the parameters field for “read_raw” command enabling “Go Read_raw”, and Click "Go Read_raw" button
Expected: “read_raw out of vEPROM range” displayed in gui Window and cmd terminal.



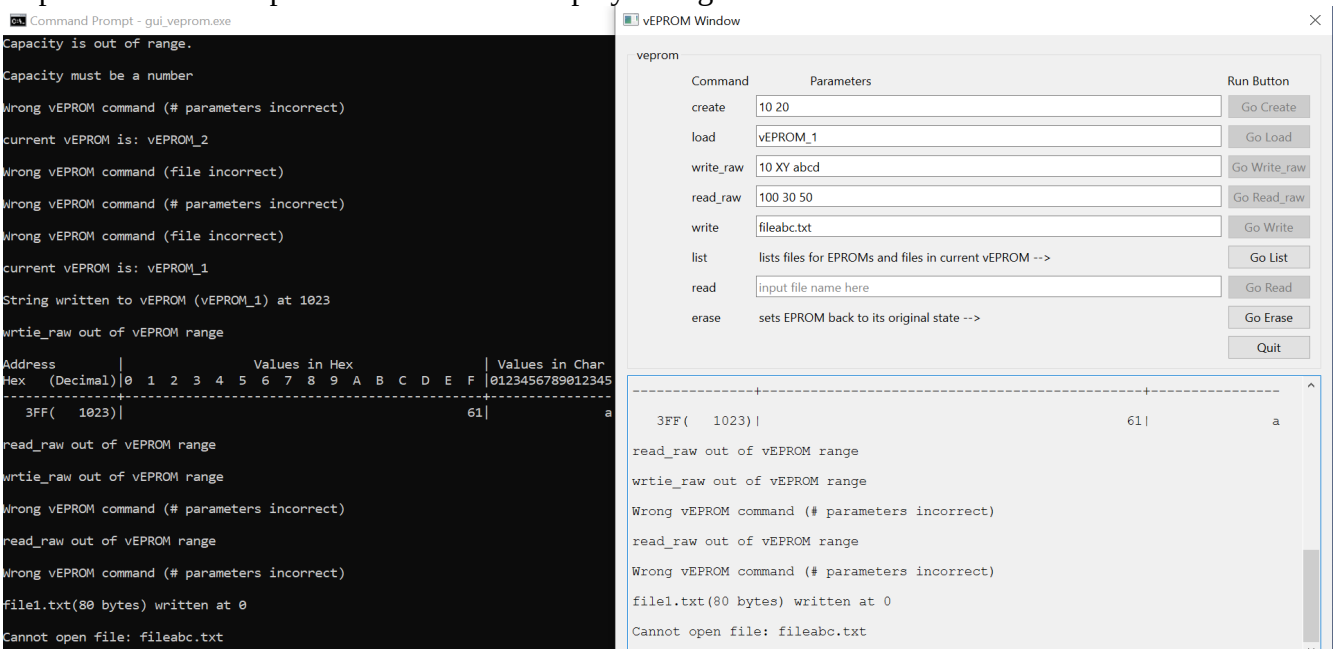
b) read 30 50 bytes at address 100 from the current EPROM (vEPROM_1)
Input “100 30 50” in the parameters field for “read_raw” command enabling “Go Read_raw”, and Click "Go Read_raw" button
Expected: “Wrong vEPROM command (# parameters incorrect)” displayed in gui Window and cmd terminal.



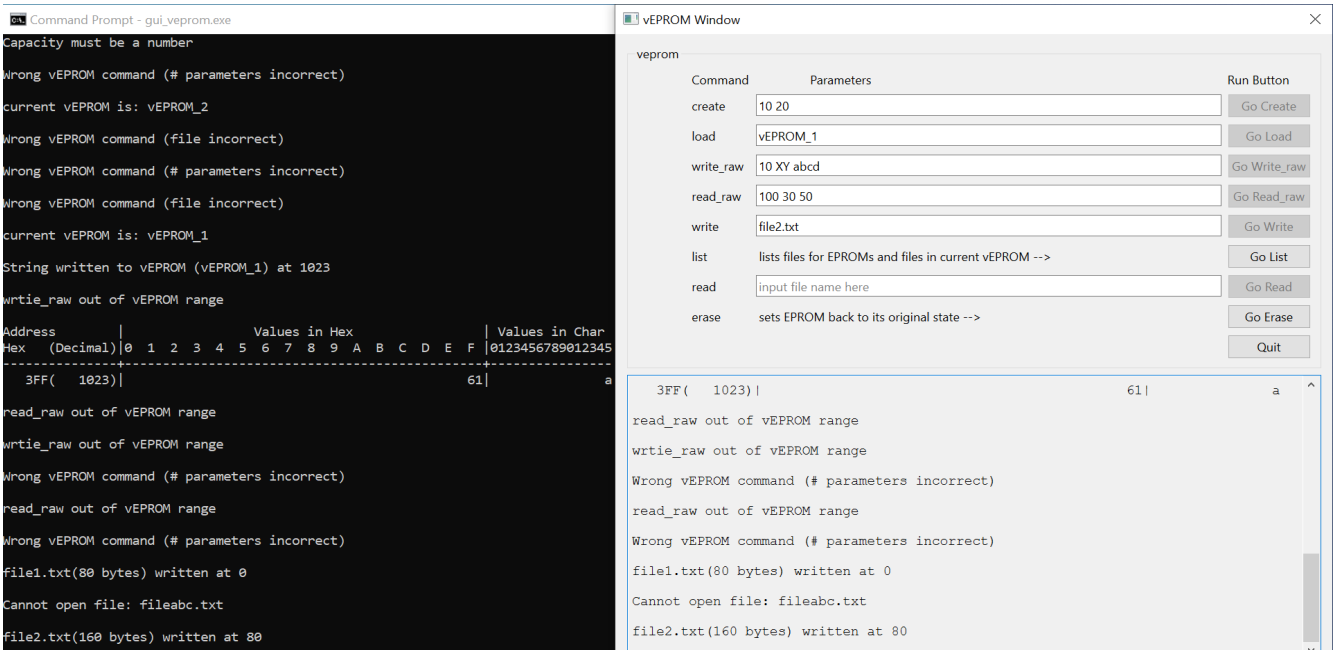
5) write file-name with file1.txt, fileabc.txt, file2.txt, file3.txt file4.txt
a) write file1.txt to the current EPROM (vEPROM_1)
Input file1.txt in the parameters field for “write” command enabling “Go Write” button, and Click "Go Write" button
Expected: “file1.txt(80 bytes) written at 0” displayed in gui Window and cmd terminal
file1.txt of 80 bytes is written to the current EPROM (vEPROM_1) at 0



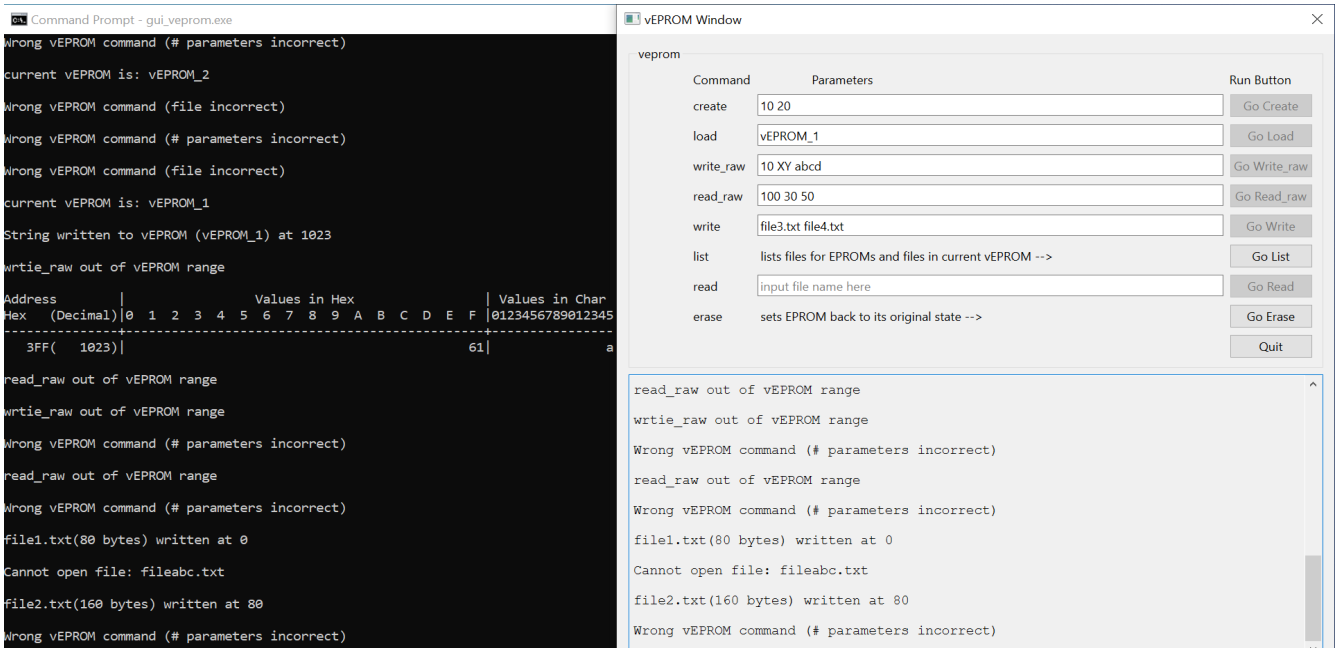
b) write fileabc.txt to the current EPROM (vEPROM_1)
Input fileabc.txt in the parameters field for “write” command enabling “Go Write” button, and Click "Go Write" button
Expected: “Cannot open file: fileabc.txt” displayed in gui Window and cmd terminal



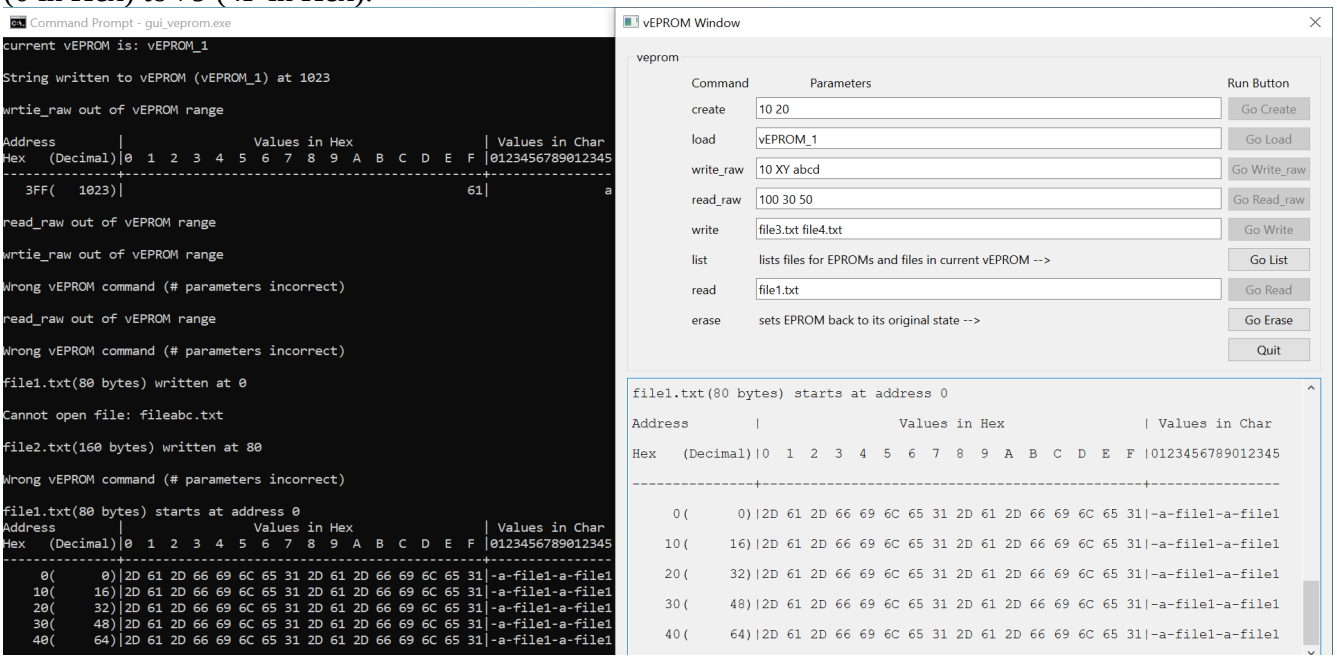
c) write file2.txt to the current EPROM (vEPROM_1)
Input file2.txt in the parameters field for “write” command enabling “Go Write” button, and Click "Go Write" button
Expected: “file2.txt(160 bytes) written at 80” displayed in gui Window and cmd terminal
file2.txt of 160 bytes is written to the current EPROM (vEPROM_1) at 80



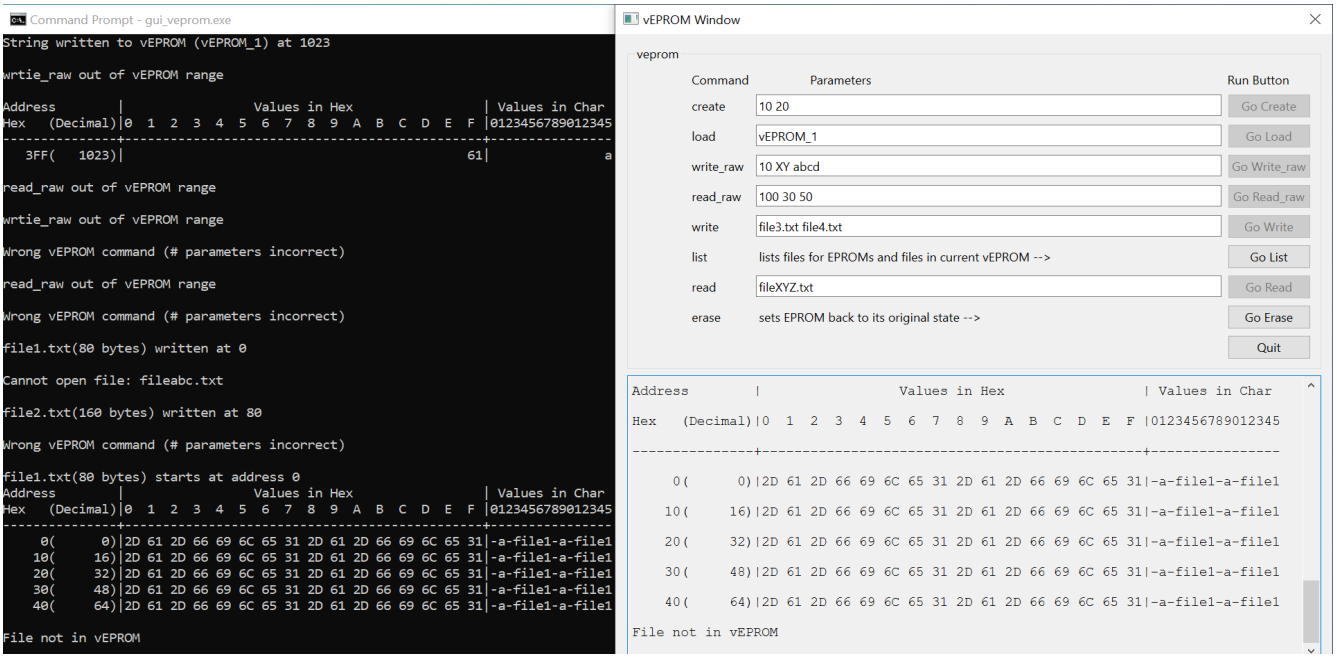
d) write file3.txt file4.txt to the current EPROM (vEPROM_1)
Input file3.txt file4.txt in the parameters field for “write” command enabling “Go Write” button, and Click "Go Write" button
Expected: “Wrong vEPROM command (# parameters incorrect)” displayed in gui Window and cmd terminal



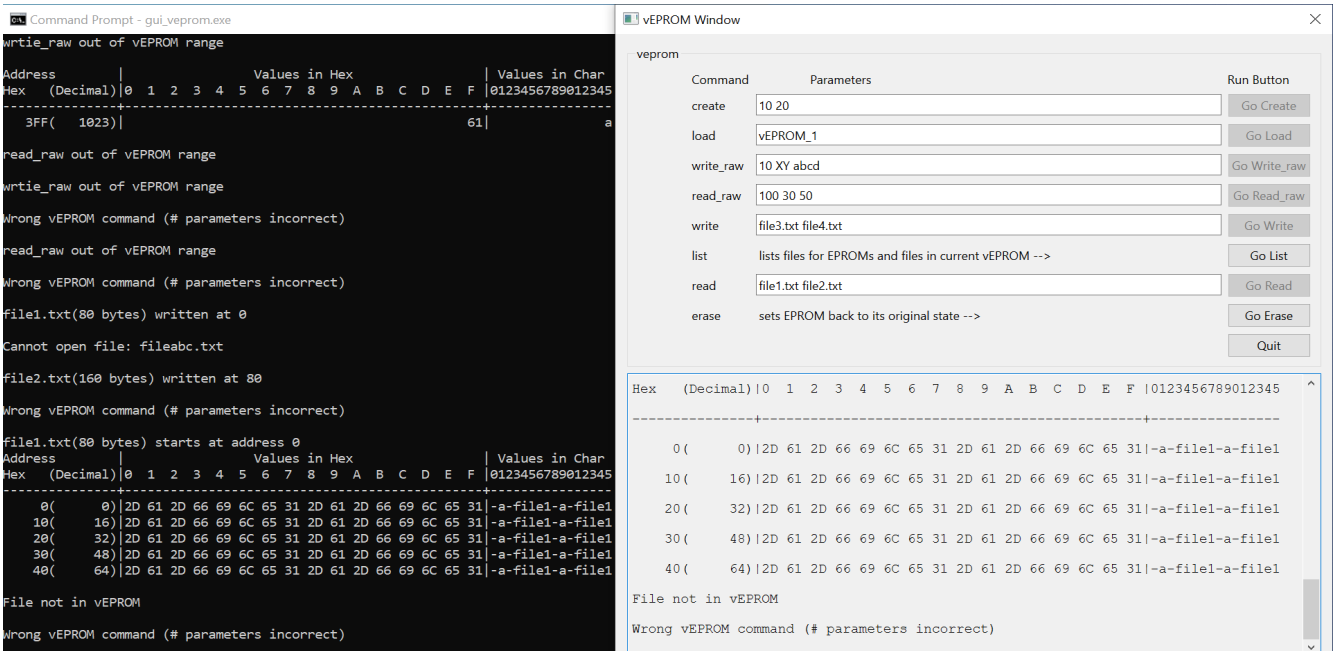
6) read file-name for file1.txt, fileXYZ.txt, file1.txt file2.txt
a) read file1.txt from the current EPROM (vEPROM_1)
Input file1.txt in the parameters field for “read” command enabling “Go Read” button, and Click "Go Read" button
Expected: The contents of file1.txt (80 bytes) in vEPROM_1 displayed in gui Window and cmd terminal. file1.txt (80 bytes) starts at address 0. Each byte is displayed in Hex and Char from address 0 (0 in Hex) to 79 (4F in Hex).



b) read fileXYZ.txt from the current EPROM (vEPROM_1)
Input fileXYZ.txt in the parameters field for “read” command enabling “Go Read” button, and Click "Go Read" button
Expected: “File not in vEPROM” displayed in gui Window and cmd terminal.



c) read file1.txt file2.txt from the current EPROM (vEPROM_1)
Input file1.txt file2.txt in the parameters field for “read” command enabling “Go Read” button, and Click "Go Read" button
Expected: “Wrong vEPROM command (# parameters incorrect)” displayed in gui Window and cmd terminal.



d) list files in the current EPROM (vEPROM_1)
Click "Go List" button
Expected: “Files written to EPROM (vEPROM_1): file1.txt(80 bytes) file2.txt(160 bytes)” displayed in gui Window and cmd terminal