3. Typescript and screenshots

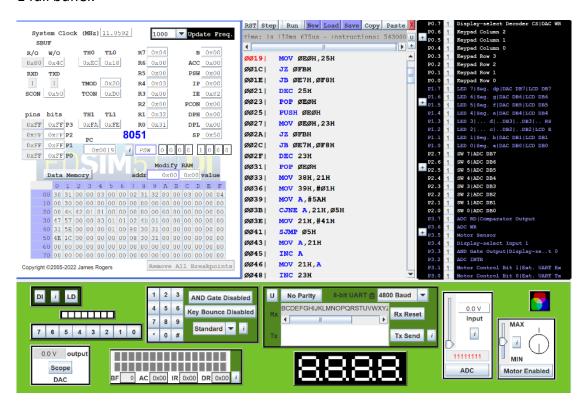
3.1 Typescript for compilation

```
PS C:\Users\peggy\OS Checkpoint\OS-checkpoint-3> make clean
del *.hex *.ihx *.lnk *.lst *.map *.mem *.rel *.rst *.sym *.asm *.lk
PS C:\Users\peggy\OS Checkpoint\OS-checkpoint-3> make
sdcc -c testpreempt.c
testpreempt.c:68: warning 158: overflow in implicit constant conversion
sdcc -c preemptive.c
sdcc -o testpreempt.hex testpreempt.rel preemptive.rel
```

3.2 Screenshots and explanation

Screenshot when the Producer is running and show semaphore changes.

Current thread ID (stored at 0x35) is 1, which is the thread ID of Producer. The semaphore empty (stored at 0x25) changes into 0, which indicates there's no empty buffer. The semaphore full (stored at 0x24) changes into 1, which indicates there is 1 full buffer.



Screenshot when the Consumer is running and show semaphore changes.

Current thread ID (stored at 0x35) is 0, which is the thread of Consumer. The semaphore full (stored at 0x25) changes into 0, which indicates there's no full buffer. The semaphore empty (stored at 0x24) changes into 1, which indicates there is 1 empty buffer.

