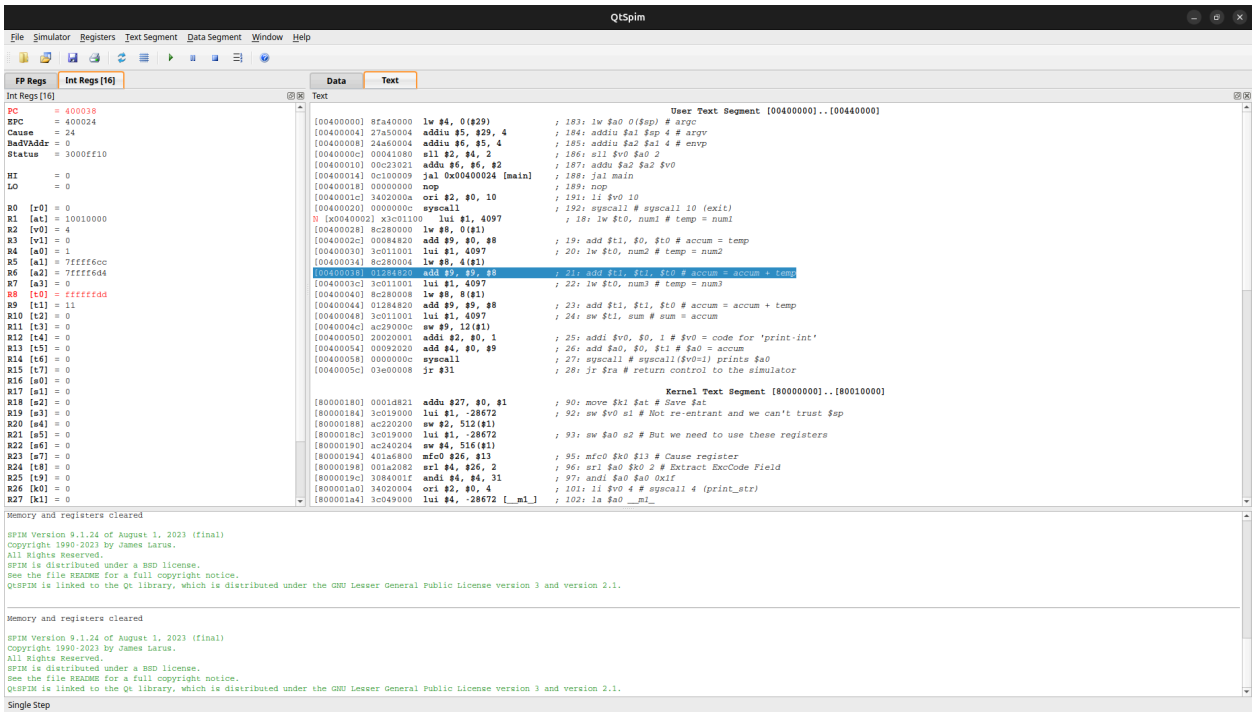
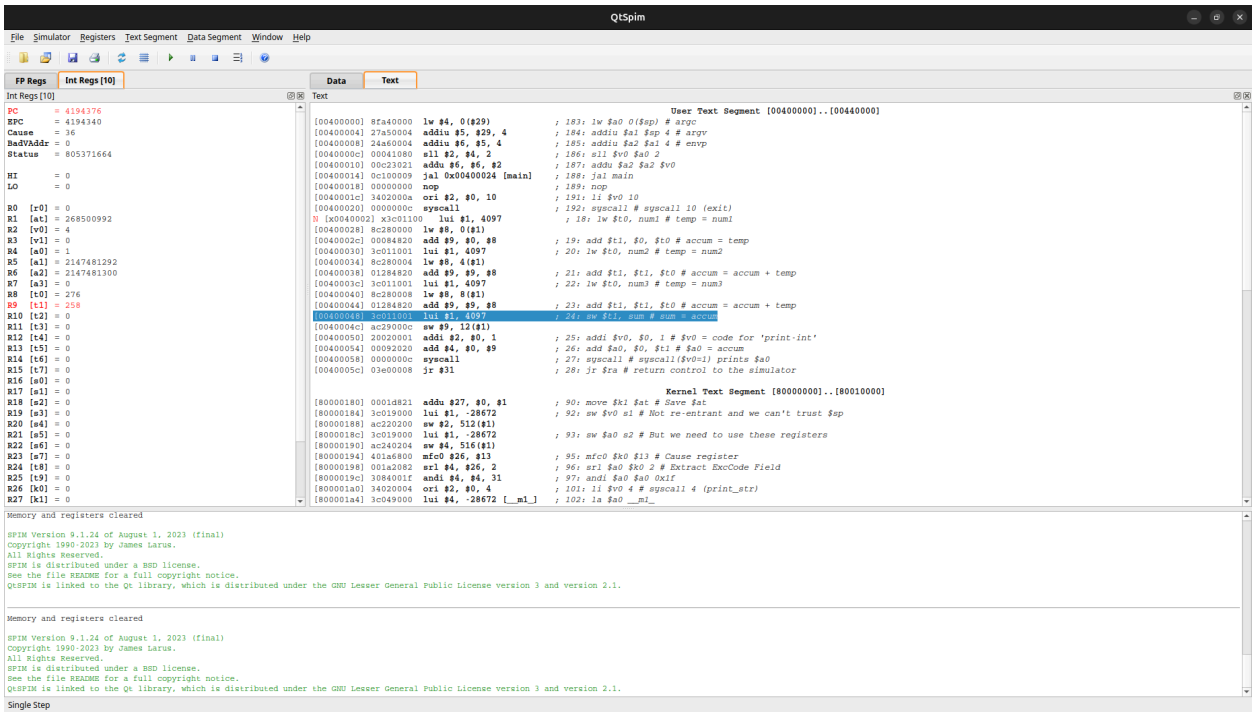
270 Lab 5

Screenshots #7

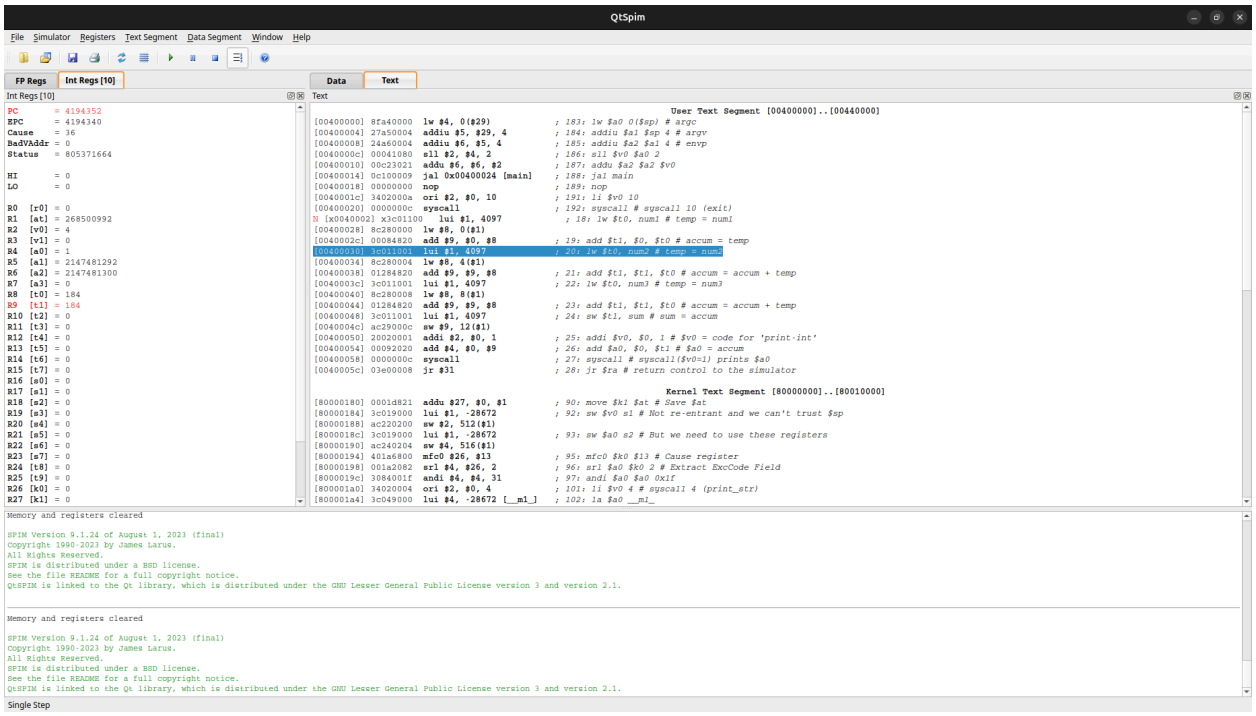


Registers $t0 and $t1 after line 19 is sum.asm. (First number added)

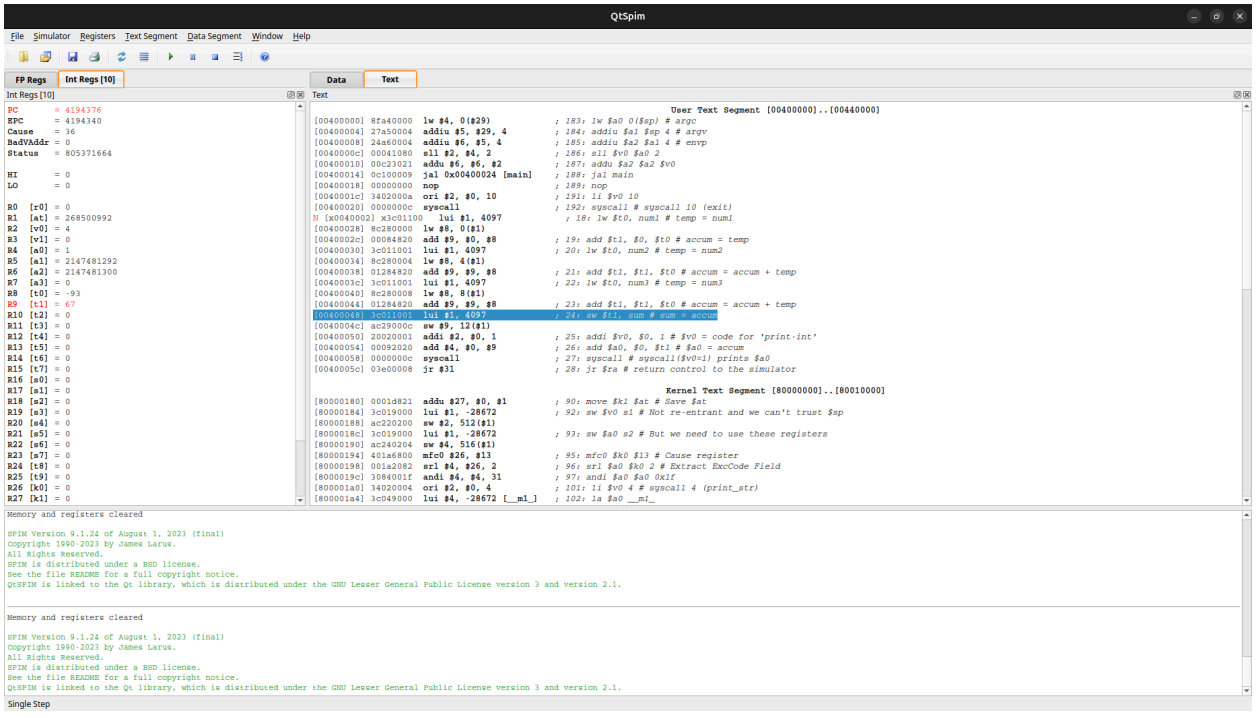


Registers $t0 and $t1 after line 24 is sum.asm. (Second and third number added)

Screenshots #8



Registers $t0 and $t1 after line 19 is sum2.asm. (First number added)



Registers $t0 and $t1 after line 23 is sum2.asm. (Second and third number added)

Questions:

1. The immediate 0x22220000 will be loaded into $t6.
2. The instruction lui means to load upper immediate which shifts the immediate value to the left and add zeros to the right to make the value 32-bits long.
3. Since immediate values only have 16-bits in the instruction word, we need to initialize the most significant 16-bits to be added to the least significant 16-bits.
4. The last jump in the assembly program returns control to the simulator. The jump in QtSpim jumps to the function main address because this is the start of the program.