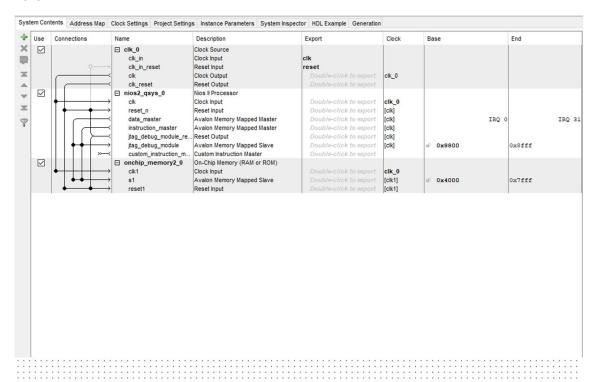
Lab 05

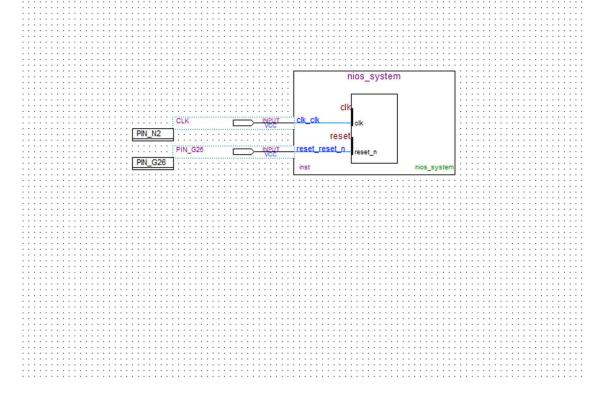
Josh Bussis

Engr 220L - A

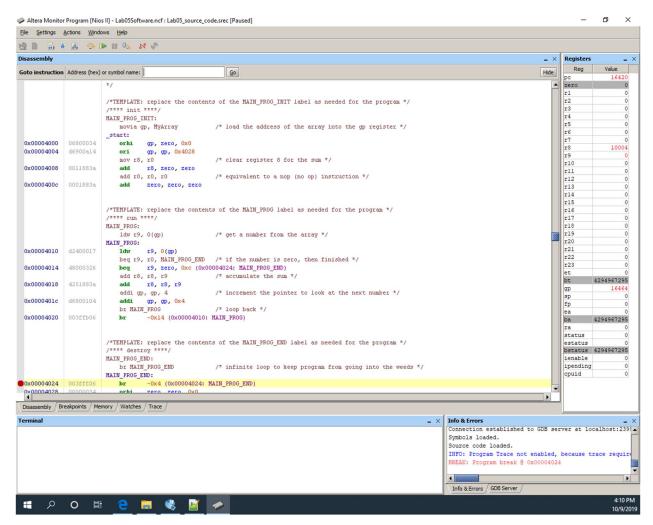
10/09/2019

Part 1:



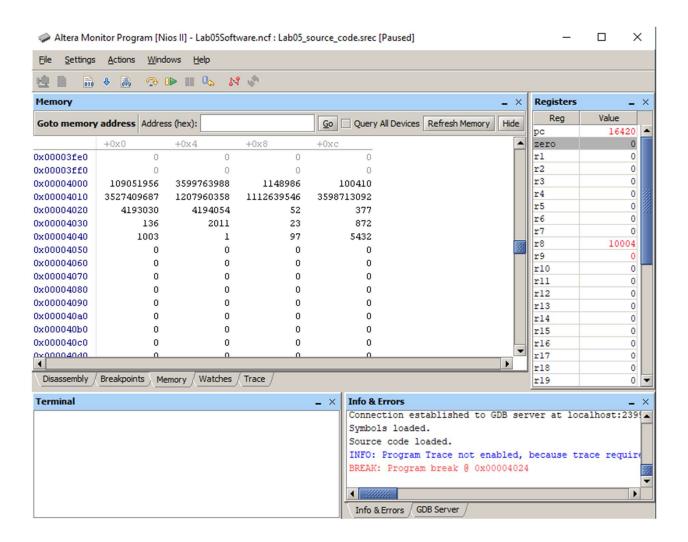


Part 2:



Movia explanation: The movia command was broken down to two different basic functions. The first function, orhi, shifted the address found at 0x0 16 bits left into the gp register, giving a starting point for the program. Then, the ori, added the contents (through "or-ing" the contents with zeros) of 0x4028 to the address in the gp register, thus giving the address for the array to the pointer.

Register Name	How used in the program	Final Value
r8	Stored the sum of the array items	10004
r9	Stored the current item of the array	0
PC	Program Counter: held the address of the current instruction	16420
gp	Pointer for the array	16464



Explanation: This window shows the contents of RAM around the memory value of 0x4000. The values originally stored in the array can clearly be seen starting at memory location 0x4020, offset 0x8. From this point on, until the first zero value, are the values of the array. The values before this point were probably the values of the instructions for the program to execute or other memory locations used to store data.