CS 218 Fall 2021 Assignment #1

Jame: Section:
Tor each of the following, make sure to show your work for full credit.
Convert the decimal value 901 to a word sized unsigned nteger and show the result in hexadecimal. (5 Points)
Convert the decimal value -37 to a double word sized signed integer and show the result in hexadecimal. (5 Points)
3. Convert the decimal value 104 to a byte sized signed nteger and show the result in hexadecimal. (5 Points)

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4. What is the decimal value of the unsigned integer value $0 \times 013F$? (5 Points)

5. What is the decimal value of the signed integer value $0 \times FFF3$? (5 Points)

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7. Assume that the RAX register has the value $0x00\ 00\ 00\ FF\ FF\ FF\ 71$. If interpreted as signed integers, what are the decimal values stored in rax, eax, ax, ah, and al? You do not have to show your work for this question. (10 points, 2 points each)

8. Extend the unsigned integer 0xF316 to 32 bits in hexadecimal. (4 points)

9. Extend the signed integer 0xF316 to 32 bits in hexadecimal. (3 Points)

10. Extend the signed integer 0x77D2 to 64 bits in hexadecimal. (3 Points)