

COSC-A212 Introduction to Programming II

HW24

Name: _____

Please answer as concisely as possible when appropriate. Keep it simple, brief, and to the point. And always show your work! Note each problem requires a specific result base! Your answers must be formatted correctly to get credit. **You MUST show your work to get any credit** (use the back if necessary)!!!!

1. The following number is in binary. Convert it to decimal. _____

0010 1010

2. Add the following two binary numbers together and express your results in binary. _____

$$\begin{array}{r} 1000\ 1010 \\ +\ 0111\ 0000 \\ \hline \end{array}$$

3. Add the following two binary numbers together and express your results in decimal. _____

$$\begin{array}{r} 0010\ 1010 \\ +\ 0111\ 1100 \\ \hline \end{array}$$

4. The following number is in hexadecimal. Convert it to binary. _____

0x42

5. The following number is in hexadecimal. Convert it to decimal. _____

0xFE

6. The following number is in decimal. Convert it to hexadecimal. _____

223