7. Convert 189_{10} to binary. Then convert binary value to hexadecimal

$189_{10} \rightarrow 128+32+16+8+4+1 \rightarrow \boxed{10111101_2}$

$128-64-32-16-8-4-2-1$

10111101_2

$1011 = B \mid 11$

$1101 = D \mid 13$

$\rightarrow \boxed{BD_{16}}$

8. Code the following in hexadecimal and then in binary in ASCII. Be sure to review the video on conversions before working on this problem

M O N D A Y (no spaces)

$\boxed{4D\ 4F\ 4E\ 44\ 41\ 59}$ ← HEXADECIMAL

$4D = 4 \mid 13 = 0100 \mid 1101$

$4F = 4 \mid 15 = 0100 \mid 1111$

$4E = 4 \mid 14 = 0100 \mid 1110$

$44 = 4 \mid 4 = 0100 \mid 0100$

$41 = 4 \mid 1 = 0100 \mid 0001$

$59 = 5 \mid 9 = 0101 \mid 1001$

BINARY → $\boxed{01001101\ 01001111\ 01001110\ 01000100\ 01000001\ 01011001}$