

19 and 20. Code the following in hexadecimal (ASCII codes) and then in binary

19.

FLAIR

$$F = 46_{16}$$

$$L = 4C_{16}$$

$$A = 41_{16}$$

$$I = 49_{16}$$

$$R = 52_{16}$$

20.

$$F = 46_{16} = \begin{bmatrix} 4_{16} = 0100_2 \\ 6_{16} = 0110_2 \end{bmatrix} = \boxed{01000110}$$

$$L = 4C_{16} = \begin{bmatrix} 4_{16} = 0100_2 \\ C_{16} = 1100_2 \end{bmatrix} = \boxed{01001100_2}$$

$$A = 41_{16} = \begin{bmatrix} 4_{16} = 0100_2 \\ 1_{16} = 0001_2 \end{bmatrix} = \boxed{01000001_2}$$

$$I = 49_{16} = \begin{bmatrix} 4_{16} = 0100_2 \\ 9_{16} = 1001_2 \end{bmatrix} = \boxed{01001001_2}$$

$$R = 52_{16} = \begin{bmatrix} 5_{16} = 0101_2 \\ 2_{16} = 0010_2 \end{bmatrix} = \boxed{01010010_2}$$

FLAIR = 01000110 01001100 01000001 01001001 01010010