Number = $(-1)^s$ * M   * 2^e
              Sign Fraction   Exponent
If s = 1 number is negative, else positive
M (mantissa) fraction value
        -For normalized number M = [1.0, 2.0]
        -Denormalized case M = [0.0, 1.0]
Advantages for representing s, m and e in a binary string:
        -Bigger range, less number of bytes to encode
Range is symmetric, left most is signed bit w/ no value

Encoding E:
0000 -> m is expressed as 0.something
1 - 14 -> m is expressed as 1.___
1111   -> m is expressed as inf, nan

____ = 1.011 * 2^{-3}
0100   -3 + bias
       =4

Bias = 2^4 -1 = 2^3 -1 = +7
20.375 -> binary
$(20)b10 = (10100)b2$
0.375 * 2 = 0.75
0.75 * 2 = 1.5
0.5 * 2 = 1
011 in front of decimal
10100.011
1.0100011 * 2^4
$(20.375)b10 = (-1)^0$ * $(1.0100011)b2$ * 2^4
N?umber = $(-1)^s$ * M * 2^e
s=0
exp=1011
Frac=010