DECIMAL TO BINARY CONVERSION

Let us see now, how a decimal number is converted into binary equivalent number. Dividing the given number by two and taking only remainders do this. This method of divide by two is known as "double-dabble method". Before that; let us see what is MSB and LSB. MSB represents" most significant bit" that represents the first number in given number, which has got maximum weightage. LSB means the "last significant bit" which represents the last number it has got lowest weightage.

MSB = Most Significant Bit (first number with maximum weightage)

LSB = Least Significant Bit (last number with lowest weightage)

For Example:

$$10010$$

MSB(1×2^4) ———————— LSB(0×2^0)

$$11101$$

MSB(1×2^4) ———————— LSB(1×2^0)