10. Converting decimal to binary number equivalents is to write down the decimal number and to continually divide-by-2 to give a result and a remainder of either a “1” or a “0” until the final result equals zero.

 Convert a binary number into decimal number, you need to start from leftmost digit from the input. Take the most significant bit , right down, then multiply by 2 with it and add second leftmost bit, store it as current result, then again multiple by 2 with current result and add third leftmost bit, update this value as current result and follow this till addition of least significant bit.