**How to convert number to binary:**

1. Divide the number by 2 and write down the remainder (either 0 or 1).
2. Divide the quotient from step 1 by 2 and again write down the remainder.
3. Continue this process of dividing by 2 and writing down the remainder until the quotient is zero.
4. Write the remainders in reverse order to get the binary representation of the original number.

**Convert 45 to binary:**

45 ÷ 2 = 22 remainder 1

22 ÷ 2 = 11 remainder 0

11 ÷ 2 = 5 remainder 1

5 ÷ 2 = 2 remainder 1

2 ÷ 2 = 1 remainder 0

1 ÷ 2 = 0 remainder 1

Reading the remainders from bottom to top, we get 101101 as the binary representation of 45.