Complements:

Complements are used in digital computer for simplifying the subtraction operation and for logical manipulation . There are two types of complement for each base (R) system :

1-The R's complement

2-the (R-1)'s complement

For binary number

complement

For decimal number

complement

For octal number

complement

For hexadecimal number

complement

45's and 2's

yes and 10's

and 2's

yes and 10's

and 2's

yes and 10's

and 2's

The 1's and 2's complement:

The 1's complement of a binary number is the no. we get when we change each (0) to (1) and each (1) to (0) (or subtracting each binary no. from 1)

Using 2's complement in subtraction:

Instead of subtraction a number, we can add it's 2's comp, and disregard the last carry.