

x		y	
1010	$\oplus$	0011	= 1001 $\rightarrow x$
1001	$\oplus$	0011	= 1010 $\rightarrow y$
1001	$\oplus$	1010	= 0011 $\rightarrow x$
0011		1010	

The bitwise XOR operator can be used to swap two variables. The XOR of two numbers  $x$  and  $y$  returns a number that has all the bits as 1 wherever bits of  $x$  and  $y$  differ. For example, XOR of 10 (In Binary 1010) and 5 (In Binary 0101) is 1111 and XOR of 7 (0111) and 5 (0101) is (0010).

**It means that, if I carry out the XOR operation to a number and its difference with another number , I get the other rest number.**