

## Binary Number System (Assignment Solutions)

**Question 1 :** The decimal forms of binary numbers :

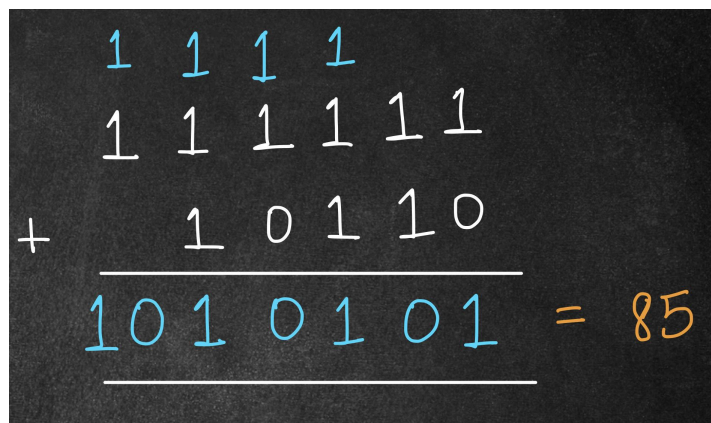
- $111111 \Rightarrow 63$
- $10110 \Rightarrow 22$
- $10011 \Rightarrow 19$
- $110010 \Rightarrow 50$

**Question 2 :** The binary forms of decimal numbers :

- $25 \Rightarrow 11001$
- $49 \Rightarrow 110001$
- $31 \Rightarrow 11111$
- $88 \Rightarrow 1011000$

**Question 3 :** Binary of  $63 \Rightarrow (111111)$  &  $22 \Rightarrow (10110)$

When we add these binary numbers, calculation is as follows:



$$\begin{array}{r}
 111111 \\
 111111 \\
 + \quad 10110 \\
 \hline
 1010101 = 85
 \end{array}$$