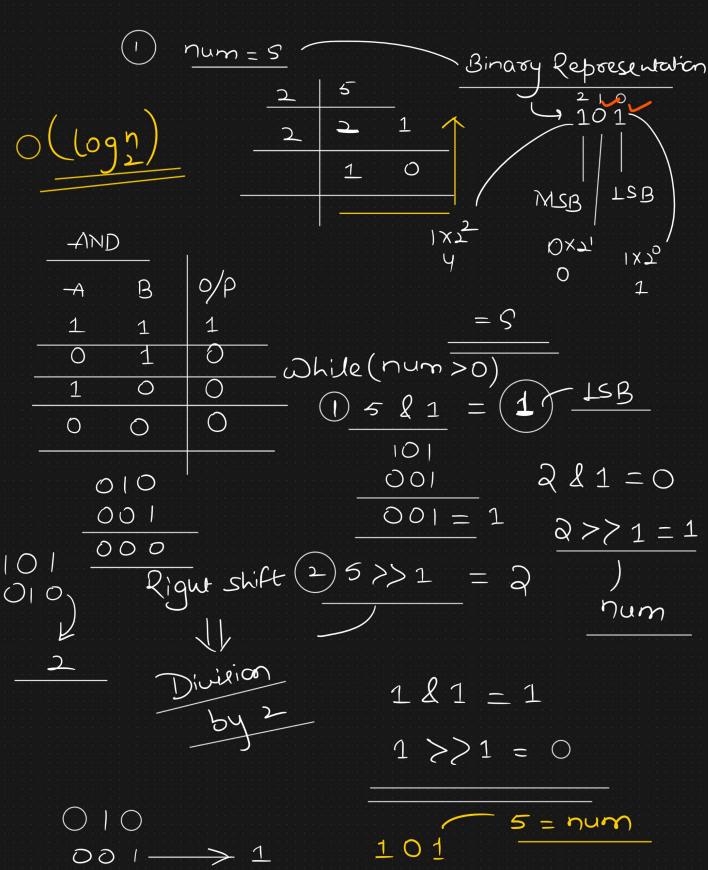
Assignment Solution Number System



(a) Power of a

Set bit
$$\rightarrow 1''$$

(4 — 100

2 — 1000

8 — 1000

16 — 10000

7um = 4 & num-1 = 3

100

011

000

$$\frac{9 \text{ num}=6}{(\text{Even Num})} \xrightarrow{0.01} \frac{0.01}{0.00}$$

$$\frac{\text{num 2 1}}{\text{even}} = 0$$

$$num = 8$$
 0001
 0000

$$num = 9$$
 0001
 0001
 0001

4) hum=15)
$$\frac{1111}{0001}$$

getSetBits(hum) $\frac{0001}{0001}$

While (num>0) of $\frac{0001}{0001}$

Count= hum l 1;

hum=hum $\frac{1111}{0001}$
 $\frac{0001}{0001}$