

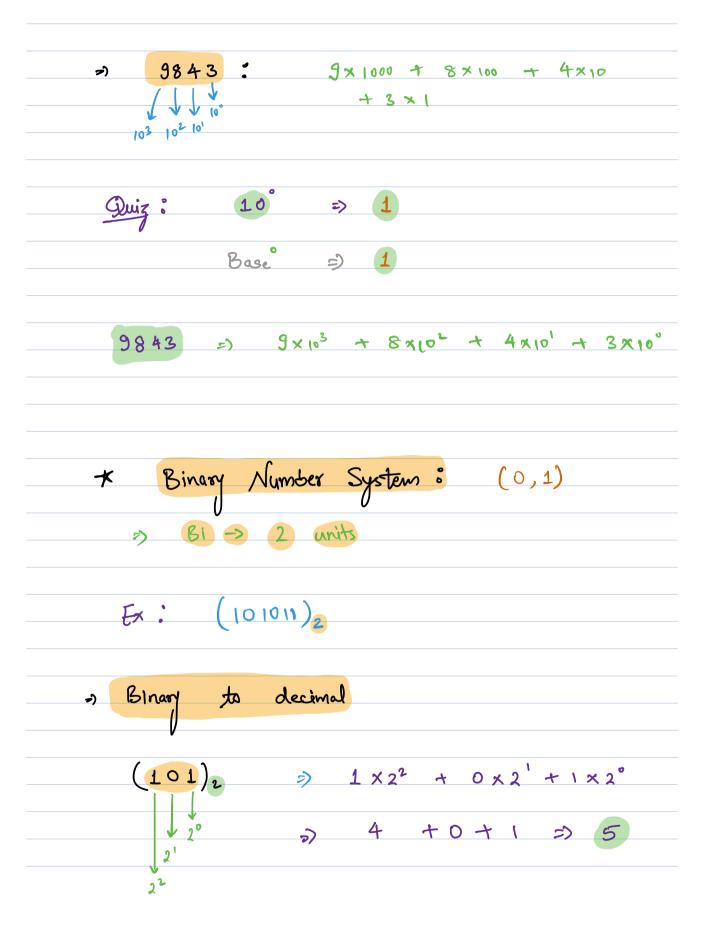
Agenda.

- Decimal number system
 Binary number system
 Binary to decimal
- 2) Declined to binary
 2) abs, min, max
 3) Range function
 2) log function

Decimal Number System:

» (9785634120)10

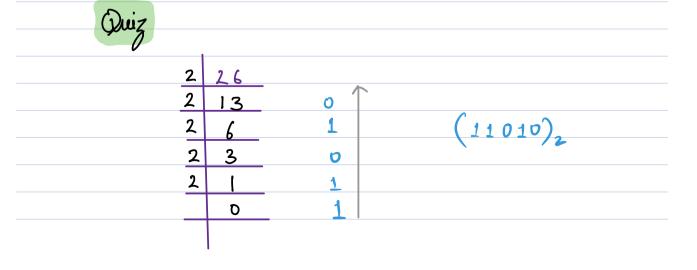
e) 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

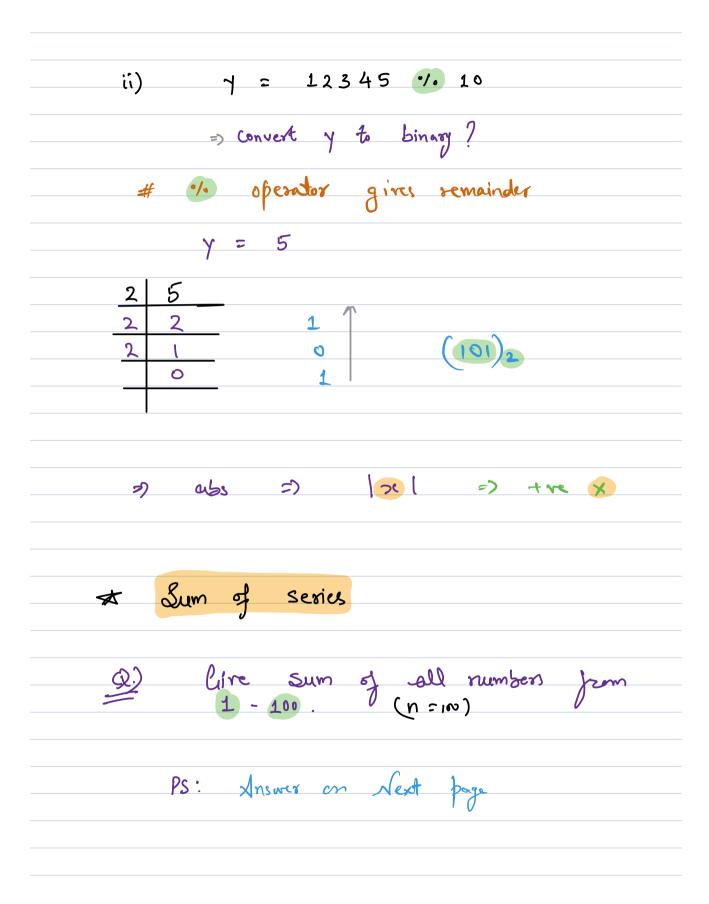


Quiz:

- - * Decimal to Binary
 - n (19765).
 - Divide it by 10 until we get O.

(0)	19765	,	
פן	1976	5	1 3765
ιo	197	6	
טן	19	7	
(0)	1	و	
	O	1	
		1	





$$S = \frac{1}{100} + \frac{1}{99} + \frac{1}{98} + \frac{1}{100} + \frac{1}{100}$$

$$S = \frac{100}{100} + \frac{1}{100} + \frac{1}{100} + \frac{1}{100}$$

$$S = \frac{100}{100} \times \frac{1}{100} + \frac{1}{100} + \frac{1}{100}$$

$$S = \frac{100}{100} \times \frac{1}{100} + \frac{1}{100} + \frac{1}{100} + \frac{1}{100}$$

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$$S = \frac{1}{100} \times \frac{1}{100} + \frac{1}{100$$

Question) Given a number. How many times you divide it by 2 to reach 1.

integer division

 $9 \quad 5 \xrightarrow{1/2} 2 \xrightarrow{\frac{1}{2}} 1$ 2 times

 $7) \quad 15 \xrightarrow{112} 7 \xrightarrow{112} 3 \xrightarrow{112} 1$

 $9) \quad 8 \quad \xrightarrow{1/2} \quad 4 \quad \xrightarrow{1/2} \quad 2 \quad \xrightarrow{1/2} \quad 1 \qquad 3 \quad \text{times}$

 $\Rightarrow 16 \xrightarrow{1/2} 8 \xrightarrow{1/2} 4 \xrightarrow{1/2} 2 \xrightarrow{1/2} 1 \qquad 4 \text{ times}$

2 = 16

* Log function :

 $\frac{1}{1} \int_{0}^{4} \int_{2}^{4} = 2$

b'' = x $2^2 \quad 2 \quad 4$



$$\lim_{n \to \infty} \int_{0}^{\infty} \int_{0$$

$$\lim_{n \to \infty} \left| \frac{1}{2} \right|^2 = 1$$

$$iii)$$
 $log_2^8 = 3 \times 2$