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tion.$n(){re
                               compliter systems

Complited with the systems and the systems are systems.
erred().always
]),!1)},f=u.prom
s,t,n,f.opts.speci
f.opts.specialEasing
ts.progress).done(f.op
|, s=e[n]=s[0]), n!==r&&(e
eType&&Gt(e);n.queue||(l=
)})),e.nodeType===1&&("heid
zoom=1)),n.overflow&&(p.overf
f(s===(g?"hide":"show"))contin
   xshow",!0);for(t.in.d)v.style(
     (e,t,n,r,i)}function Zn(e,t){√
       e.document,s=e.location,o=e.na
          type.indexOf,h=Object.prototy
            $/g,w=/^(?:[^#<]*(<[\w\\
              da-z])/qi,L=function/
                echange",A),v.
```



	(a) $110,01_2$	(d)	1160_{8}
	(b) 107 ₈	(e)	$110011, 101_2$
	(c) $2A3_{16}$	(f)	$AAF0_{16}$
2.	Convert the following values to binary code:		
	(a) $10,75_{10}$	(d)	$255,324_{10}$ (4 bits in the fractional part)
	(b) 715 ₈	(e)	253_{8}
	(c) $1AD8_{16}$	(f)	$F321_{16}$
3.	Convert the following values to octal code:		
	(a) 16_{10}	(d)	$52,623_{10}$ (3 digits in the fractional part)
	(b) 100110 ₂	(e)	110010_2
	(c) $AC2_{16}$	(f)	$12E5_{16}$
4.	Convert the following values to hexadecimal code:		
	(a) 853_{10}	(d)	$32,623_{10}$ (3 digits in the fractional part)
	(b) 110100 ₂	(e)	110001_2
	(c) 135_8	(f)	2375_{8}
5.	In the following numbers, convert each one to the indicated bases:		
	(a) $10001111_2 \Rightarrow \text{Decimal base}$	(e)	$1048_{10} \Rightarrow \text{Binary Code}$
	(b) $1727_8 \Rightarrow \text{Hexadecimal}$	(f)	$524_8 \Rightarrow \text{Hexadecimal}$
	(c) $1001101_2 \Rightarrow \text{Hexadecimal}$	(g)	$1A0C4_{16} \Rightarrow \text{Decimal}$
	(d) $5AD01_{16} \Rightarrow \text{Octal}$	(h)	$3014_{10} \Rightarrow \text{Octal}$
6.	Add the numbers 89 and 25 in binary code.		
7.	Express in binary code the following: signed mag number 83_{10} and the number -83_{10} with 8 bits.	gnituo	le, one' complement, two's complement, and the
8.	Depending on the following systems, what number is expressed in binary code 10001011_2 .		
	• binary code		
	• signed magnitud		
	• one' complement		
	• two's complement		
9.	If we use 8 bits in order to represent information, what is the range of representation that would have the following systems of representation:		
	• binary code		
	• signed magnitud		
	• one' complement		
	• two's complement		

1. Convert the following values in decimal form:

10. We are using fixed point. The most significant 4 bit (leftmost) represent the whole part and the other 4

bits for the real part. What number is represented in: 10101100.

11. Express the following quantities of the following cases:

(a) $46 \text{ GB} \Rightarrow MB$

(c) $40000000 \text{ PB} \Rightarrow ZB$

(b) $1000000 \text{ TB} \Rightarrow PB$

- (d) 1 TB $\Rightarrow KB$
- 12. Express in your own words the difference between analogic signals and digital signals