Binary Conversions Friday, 4 December 2020 3:01 PM	
Binary Conversions  Friday, 4 December 2020 3:01 PM  1. Numbers Sinary 2. Text Hera-Decimal 3. Images	
4. Video 5. Sound.	
Number Systems:	
* Denary, Binary, Hex	
Denary (Decimal): 0,1,2,3,4,5,6,7,8,9 Digits:	
Digits.  Unique digits court = 10	
Base=10	
Binary Digits bit 0,1	
Unique Digits Count = 2	
Base = $2$	
Hexa-Decimal: 0,1,2,3,4,5,6,7,8,9, Decimal	
A,B,C,D,E,F  Unique Digits Count = 16	
Base = 18	
Denary Binary = Hex	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
BYTE	
- Least data later a computer saves is a byte.  - Computer always saves in multiples of bytes.	
Denary Significant Significant  (MSD) Digit  10 2 8 5 Position  10 10 10 Base  1000 100 10 1 — Worth  Read judge, excluste, write	
Denary  Most  Significant  Oigit  Onigit  Onigit	
10° 10' 10' Base	
1000 100 1 — Work	
Read, judge, excluate, write	
Form 1000 100 10 1	
Form	
$\mathcal{D}_{\bullet}$	
$\frac{B = Byte}{b = bit}$	
LSB	
MS6  0 0 0 1 1 0 Position  2 2 2 2 2 2 2 2 Besse	
2 2 2 2 2 2 2 Bisk	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Important 1	
Hex. MSD LSD	
42 a a D ET	
16 16 16 16 16 Base	
65536 4096 256 16 1 — Work	
Denony: 4095	
$1000 \ 100$	
4000+0 + 90 + 6 = 4096	
Binary: 0001110-	
$\frac{1}{128}$ $\frac{3}{64}$ $\frac{3}{3}$ $\frac{3}{16}$ $\frac{3}{8}$ $\frac{3}{4}$ $\frac{2}{5}$ $\frac{1}{5}$	Ĭ
0+0+0+8+4+2+0=	7
Her: A C 3 F	(D
4096 256 16 1 = C = 1.	
40960+3072+48+15=544095 $E=11$	3
$\rightarrow$ $F = 19$	
- This Hex to Den conversion method is avoided and an	
alternative method will	
- This melted is used when we Dis Bight When the Dis Bight	
Hex to Den. So, It we go Les to Bin and hen	
Bin to Hex, that will be much more easier to trandle without	
Calculator	
- This will save us both time and effort. Results will be more	
accorate as chances of errors are reduced.	
Conversions Binary	
Denamy 128 64 32 16 8 4 2 1 Hex	ı
40 001000	
100 0 1 1 0 0 1 0 0	
15 6 0 0 1 1 1	
200 1 1 0 0 1 0 0 0	
200	