Name: Ahmed Sayed Abd ElFattah

1-Conver Decimal numbers to binary

Decimal	Binary
	Answer
1-5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
2 – 31	2-
	2^4 2^3 2^2 2^1 2^0
	16 8 4 2 1 (11111)
3 – 112	3-
	$2^6 \ 2^5 \ 2^4 \ 2^3 \ 2^2 \ 2^1 \ 2^0$
	64 32 16 8 4 2 1
4 – 255	(1110000)
	$2^7 2^6 2^5 2^4 2^3 2^2 2^1 2^0$
	128 64 32 16 8 4 2 1 (10011011)

2-convert Binary bumbers to Decimal

Binary	Dec	im	al						
						-:	الثثائي	ام النظام ا	بستخد
	27	2 ⁶	25	5	2 ⁴	2 ³	2 ²	2 ¹	2 ⁰
	128	64	32	2]	16	8	4	2	1
								Ans	<u>wer</u>
1- 1 1 1 1 0 0 0 1	1-								
	1	1	1	1	0	0	0	1	
	128	64	32	16	8	4	2	1 = 23	37
2- 1 1 0 0 1 0 1 0	2-								
	1	1		0		0		0	
3- 1 1 1 1 1 1 1		64	32	16	8	4	2	1 = 20	12
3- 1 1 1 1 1 1 1	3-	1	1	1	1	1	1	1	
	1		_	1				1	
4-00011100	128	64	32	16	8	4	2	1 = 25	5
	4-	0	0	1	1	1	0	0	
								1 = 28	
	128	04	34	10	ð	4	2	1 = 20	

3-Convert this text to binary

2- Python			1- Hello				
Letter	Dec	Binary	Letter	Dec	Binary		
		64 32 16 8 4 2 1			64 32 16 8 4 2 1		
P	80	1 0 1 0 0 0 0	H	72	1 0 0 1 0 0 0		
y	121	1 1 1 1 0 0 1	e	101	1 1 0 0 1 0 1		
t	116	1 1 1 0 1 0 0	1	108	1 1 0 1 1 0 0		
h	104	1 1 0 1 0 0 0	1	108	1 1 0 1 1 0 0		
0	111	1101111	0	111	1 1 0 1 1 1 1		
n	110	1 1 0 1 1 1 0					

4-convert this binary to text

1- 01011001- 01101111-1110101			2- 01000100-01101001-1100100		
Letter	Dec	Binary	Letter Dec	Binary	
		64 32 16 8 4 2 1		64 32 16 8 4 2 1	
Y	89	1 0 1 1 0 0 1	D 68	1 0 0 0 1 0 0	
0	111	1 1 0 1 1 1 1	i 105	1 1 0 1 0 0 1	
u	117	1 1 1 0 1 0 1	d 100	1 1 0 0 1 0 0	
You				Did	

111-01 00	101111-1101111-	4- 01001	010 011	101111 1100010
Dec	Binary	Letter	Dec	Binary
	64 32 16 8 4 2 1			64 32 16 8 4 2 1
71	1 0 0 0 1 1 1	J	74	1 0 0 1 0 1 0
111	1 1 0 1 1 1 1	0	111	1 1 0 1 1 1 1
111	1 1 0 1 1 1 1	b	98	1 1 0 0 0 1 0
100	1 1 0 0 1 0 0			
Good			J	ob
	71 111 111 100	Dec Binary 64 32 16 8 4 2 1 71 1 0 0 0 1 1 1 111 1 1 0 1 1 1 1 111 1 1 0 0 1 0 0 1 1 0 0 1 0 0	Dec Binary	Dec Binary 64 32 16 8 4 2 1 71