INFORMATION REPRESENTATION

ASSIGNMENTS

1. Convert 1111 0110 from base 2 to base 10
2. Convert 0111 1111 from binary to decimal
3. Convert 27 from base 10 to base 2
4. Convert 62cd from hexadecimal to base 2
5. Convert 0111 1000 1111 1100 from binary to base 16
6. Convert 0111 1110 1010 0111 from base 2 to hexadecimal
7. Convert 223 from base 10 to binary
8. Convert 10 from octal to binary
9. Convert d214 from base 16 to binary
10. Convert 0111 1110 1000 1111 from binary to hexadecimal
11. Convert 77 from base 8 to base 10
12. Convert 11101010 from base 2 to base 16
13. Convert 51 from base 10 to base 2
14. Convert 100101 from base 2 to base 16
15. Convert 1111000 from base 2 to base 16
16. Convert 23 from base 8 to base 10
17. Convert 1001110 from base 2 to base 10
18. Convert 31 from base 16 to base 10
19. Convert 246 from base 10 to base 2
20. Convert 89 from base 16 to base 2
21. Convert 176 from base 10 to base 2
22. Convert 10110100 from base 2 to base 10
23. Convert 1101 from base 2 to base 16
24. Convert 1011000 from base 2 to base 10
25. Convert 110110011 from base 2 to base 8
26. Convert 7 from base 8 to base 2
27. Convert ad from base 16 to base 2
28. Convert 73 from base 8 to base 10
29. Convert 49 from base 16 to base 2
30. Convert 11011101 from base 2 to base 8

31.   Convert 10 from base 2 to base 16
32.   Convert 10011000 from base 2 to base 16
33.   Convert 10001101 from base 2 to base 8
34.   Convert ad from base 16 to base 10
35.   Convert 41 from base 16 to base 2
36.   Convert ff from base 16 to base 2
37.   Convert 27 from base 8 to base 10
38.   Convert 11110101 from base 2 to base 10
39.   Convert 10110101 from base 2 to base 10
40.   Decode the following ASCII message.
     1010011101010010101011000100101100101000001001000100000110100101000100

41.   What base is being used if the letters A, B, C, D, E, or F appear as digits?
42.   convert $(110011)_2$ to decimal.
43.   convert $(1011.101)_2$ into decimal.
44.   convert $(51)_{10}$ into binary
45.   Example: convert $(F4C)_{16}$ into decimal.
46.   Convert 01101_2 to octal
47.   Convert 001100110_2 to octal
48.   Convert 1011_2 to octal
49.   Convert 11110001_2 to octal
50.   What is ASCII CODE and where its used and why?
51.   What is unicode ?
52.   How many bits are used to represent Unicode, ASCII, UTF-32, and UTF-8 characters?
53.   What scripts does Unicode support?
54.   Why is there more than one Unicode encoding?
55.   Can I store Unicode data in a non-Unicode System?
56.   What's the difference between ASCII and Unicode?
57.   What's the difference between Unicode and UTF-8?
58.   Are Web sites using Unicode right now?
59.   What is the difference between ASCII, ISCII (Indian) and Unicode?
60.   What is ISCII?