1. Convert base8 to base2
   - 723   =111 010 011
   - 1234567 =001 010 011 100 101 110 111
   - 345 =011 100 101
   - 235626 =010 011 101 110 010 110
   - 77665544332211 =111 111 110 110 101 101 100 100 011 011 010 010 001
2. How many bits with base8
   - 702 =9bits
   - 7001 =12bits
   - 67545 =15bits
   - 777666=18bits
   - 3344 =12bits
3. Can you explain in the numbers bellow If they are base8
   - 881234 =no base8
   - 1976 =no base8
   - 7654 =yes base8
   - 124567 =yes base8
   - 654ABCDEF =no base8
4. Convert base8 to base10
   - 777666 =111 111 111 110 110 110
   - 56765 =101 110 111 110 101=5DF5
   - 0001001=001 000 000 001=201
   - 012345001=001 010 011 100 101 000 000 001=29DA01
   - 7000000001 =111 000 001=E0000001
5. Convert base8 to base16
   - 77662233 = 111 111 110 110 010 010 011 011=FF649C
   - 33441122 =011 011 100 100 001 001 010 010 =6E4252
   - 0011001100 =001 001 000 000 001 001 00 00 =90090
   - 1100220033=001 001 000 000 010 010 000 000 011 011=901201D
   - 1122334455667700 =2525E4D76FC0
6. How many bytes with the number bellow (base8)
   - 71100777 =111 001 001 000 000 111 111
   - 6000 =110 000 000 000 =12*8=96bytes
   - 3000 =011 000 000 000 =12*8= 96bytes
   - 7654321=111 110 101 100 011 010 001=21*8=168bytes
   - 6760000 =110 111 110 000 000 000 000 = 21*8=168bytes
7. We continue with 6 (1,2,3,4,5)
   - How many Kilobytes =1/8kilobytes
   - How many Megabytes =1/1024megabytes
   - How many Gigabytes =1/1024megabytes
   - How many Gigabytes =1/1024megabyes

8. Convert base2 to base8
   - 00000111100000 =740
   - 11111111111111=37777
   - 10101010101010 =25252
   - 10000000000000 =20000
   - 00000000000001 =1
9. How many bits with base2
   - 100000000000001 =15bits
   - 000000000000000 =15bits
   - 101010101010101=15bits
   - 000000111111000 =15bits
   - 0110011001000100 =16bits
10. Can you explain in the numbers bellow If they are base2
   - 0001112222
   - ABC10DFE
   - 11111111
   - 00000000
   - 787665543210
11. Convert base2 to base10
   - 777666
   - 56765
   - 0001001
   - 012345001
   - 7000000001
12. Convert base2 to base16
   - 000100010000100100100011111
   - 11111111111111111111111111
   - 10100010001001000010001000
   - 0000000000000000000000000001
   - 10000000000000000000000000
13. How many bytes with the number bellow (base2)
   - 100000000000000000000
   - 11111111111111111111
   - 00000000000000000001
   - 0000………0000(length of number0 = 1024)
   - 1111……1111 (length of number1 = 1024/8)
14. We continue with 13 (1,2,3,4,5)
   - How many Kilobytes
   - How many Megabytes
   - How many Gigabytes
   - How many Gigabytes

15. Convert base10 to base2
    - 33
    - 129
    - 140
    - 678
    - 999
16. How many bits with base10
    - 33
    - 129
    - 140
    - 678
    - 999
17. Can you explain in the numbers bellow If they are base10
    - AB00011
    - D0
    - 0011
    - 000
    - F10A
18. Convert base10 to base8
    - 777666
    - 56765
    - 0001001
    - 012345001
    - 7000000001
19. Convert base10 to base16
    - 100
    - 200
    - 35
    - 77
    - 777
20. How many bytes with the number bellow (base10)
    - 100
    - 200
    - 90
    - 77
    - 777
21. We continue with 20(1,2,3,4,5)
    - How many Kilobytes
    - How many Megabytes
    - How many Gigabytes
    - How many Gigabytes

22. Convert base16 to base2
   - ABCDEF
   - 129
   - 140
   - 678
   - 999
23. How many bits with base16
   - D001
   - E002
   - C003
   - F0B
   - E0A
24. Can you explain in the numbers bellow If they are base10
   - ABG
   - DH
   - 0011
   - 000
   - F10A
25. Convert base16 to base8
   - 00011000
   - ABC002
   - 0001001
   - 012345001
   - 7000000001
26. Convert base16 to base10
   - 100
   - 200
   - 35
   - 10B
   - ACDEFB
27. How many bytes with the number bellow (base16)
   - 100
   - 200
   - 90
   - 77F200
   - ACB10F
28. We continue with 27 (1,2,3,4,5)
   - How many Kilobytes
   - How many Megabytes
   - How many Gigabytes
   - How many Gigabytes

29. Operation on binary
    - 1111111+1111111
    - 1111111+0001111+111111
    - 0011001+1100011+111100+0101011
    - 1000011011+10001110011+100011011+10001111
    - 1111111111+0011111111+11111111+111111+11111
    - 111+111+111+111+111+11+111+111+1111+111+111+111+111+111+111
    - 1111-001
    - 111111-111-111
    - 111111-0011-1111-1111-1111-1111
    - 01111-00101-00011
    - 11111-01011-00101-00001
    - 11111111111111-11-11-11-11-11-11-11-11-11-11-11
    - 1111111111111-001-001-001-001-001
    - 100000000000000000-11-11-111-1111-11111-11111111
30. Bits and Bytes
    - 1000bits = bytes?
    - 1000000bits = kilobytes?
    - 1024x1024bytes = megabyte?
    - 1gigabyte = megabyte? = kilobyte? = byte? = bits?
    - Terabyte = gigabyte? = megabyte? = kilobyte? = byte? = bits?
31. Convert base16 to base8
    - 10000000001
    - 010101010100
    - 123456789ABCDEF
    - 1111111111111111
    - 998877665544332211
    - 1A2B3C4D5E6F789A
32. Convert base8 to base16
    - 11111111111111111
    - 10000000000000000
    - 000000000000000011
    - 0222233334445556677
    - 1234567654321
33. Convert base2 to base 16
    - 1111……111(length of number1=24)
    - 10000…….000(length of number0 = 40)
    - 111….111000…000(length of number 1 = 12 and number0 = 12)
34. Convert base2 to base 8
    - 1111……111(length of number1=24)
    - 10000…….000(length of number0 = 30)
    - 111….111000…000(length of number 1 = 12 and number0 = 12)