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(653269 Assignment #1
1. Convert 51,0 to binny
Dividend Remainder
51/2=25 1
25/2= 12 1
12/2 = 6 0
6/2=3 0
3/2=1 1
1/2=0 1
Answer: 1100 112
2. Convert 111110100100, to decimal
(0 x $20) + (0 x 2') + (1x22) + (0 x 23) + (0 x 24) +
(1x25)+(0x26)+(1x27)+(1x28)+(1x26)+
(1 x 2") + (1 x z") =
0 + 0 + 4 + 0 + 0 + 32 + 0 + 128 + 256 + 512 + 1024 + 2048 =
Answer: 40040
3. Convert Decimal 1971,0 to octal
Dividend Remainder
197/8=246 3
246/8=30 6
3/4=0 3
Answer: 3663
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4. Convert octal 6305, to decimal
 (6 x 63) + (3 x 82) + (0 x 8) + (5 x 60) =
 = 3,072 + 192 + 0 + 5 = 3269
 Answer: 3269
 5. Convert decimal 2022,0 to hexadecimal
Dividend Remainder
2022/16 = 126 6
                         C1415 E in Hex)
126/16 =7 14 -> E
                          (0-9, A-F) 10:A
7/16 = 0 7
                                          13:0
Answer: 7E6/
                                          14: E
                                         15: F
 6. Convert hexadecimal C97, to decimal
 C97= (12 × 162) + (9 × 16') + (7 × 16°)
 Answer: (3,072) + (144) + (7) = 3,223
 Answer: 3,223)
 7. Convert hexadecimal 9F1, to binary
  9F1,6 = 1001 1111 0001
 Answer: 100/11/10001
 B. Convert octal 6402 to binary
 6402; Convert each octal digit to 3 binny digits
 6:110 4:100 0:000 2:010
 Answer: 110100000010
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9. Convert alphanumera ASCII "Computer Architecture Concepts"
 to brany. Clonvert to decimal & binary)
  C: 67 7 01000011 A: 65 > 01000001
                                                       C: 67 9 01000011
                        r: 114 > 0111 0010
  0: 111 > 0110 III
                                                       0: 111 > 0110/111
  n: 101 > 0110 1101
                       C: 99 > 0110 0011
                                                       n: 110 > 0110 1110
 p: 112 9 0111 0000
                             h: 104 9 0110 1000
                                                       C: 99 > 01100011
  U: 117 9 0111 0101
                             1: 105 7 0110 1001
                                                       e: 101 = 0110 0101
  7: 116 9 0111 0100
                             t: 1/6 9 0111 0100
                                                       p: 1/2 3 0111 0000
 e: 101 - 0110 0101
                            e: 101 7 0110 0101
                                                      7: 116 901110100
 F: 114 9 0111 0010
                            C: 99 > 0110 0011
                                                      3: 115 > 0110011
                            +: 116 9 01110100
                            U: 117 9 01110101
                            r: 1/4 9 01110010
                            e: 10/ 9 61100/01
Answer! -
                                                          6E6365707473
10. Convert aphanumera ASCII to Hexadecimal
43 6F 6D 70 75 74 65 72 20 4172 63 6369 7465 63 747572652043 FF
C: 67 + (67/6:4/R:3)(4/100R:4)4: 65 + (65/16:4 R:1)(4/16:0R:4)(1 (5)AC 15 previous C)
0: 111 3 (111/16:R8)(6/16:R6) 5: 114 3 (Game as previous o) 0: (Same as previous o)
m: 105 3 (10/11:6 12:13) (6/11:0 12:6) C: 99 3 (9/16:6 12:3) (6/16:0 12:6) ! 110: (110/16:6 12:14) (6/16:0 12:6)
p: 112 - (12/11:7 R:0)(7/11:0 R:7) 104 - (104/11:6 R:4)(6/16:0 R:6) C: (5ame as previous c)
U: 117 > (117/16:7 R:5)(7/16:0 R:7)": 105 > (105/16:6 R:7)(6/16:0 R:6) C! (5anc as present e)
+: 116 7 (16/16:7 R:4) (1/6:0 R:7) 116 9 (Same as previous +) p: (Same as previous p)
e: 101 > (101/16:68:5)(11.08:6)(1 1019 (bane as previous e) +: (Sanc as previous +)
( : 147(14/16:78:2)(7/16:08:7) C. 99 > (Sanc as precious c) 5: 115:(15/16:78:3)(7/16:08:7)
                         +: 116 7 Come as previous +)

U: 117 7 Come as previous c)

r: 114 7 (Some as previous r) C: 101 7 Come as previous e)
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