

ASSINMENT

1. Convert to hexadecimal number (1101.10110011) base 2 and 10100110100101.10001100 in to base -16 number.
2. Convert (2BD) base 16 ,(5A3.CE2) into binary.
3. Convert (475.25) base 8 into decimal equivalent.
4. Convert (1234) base 8 into hexadecimal number.
5. Convert (AB6.13)base 16 into octal equivalent.
6. Convert (457D.F8)base 16 into base-8number.
7. Use binary arithmetic to subtract 10 from (a) 16 (b) 22.
8. Perform the binary subtraction operation using 1's compliment method.
a. 43- 57 b. 8-10 c. 8.75 - 10.624 d. 11.125 – 16.875
9. Find the 2's compliment method of the following.
(a) 1010 (b) 1111 (c) 11.01
10. Convert the following decimal numbers into binary and find their 2's compliment.
11. Perform the following subtraction operation using 2's compliment method.
(a) 7 - 22 (b) 13 – 27 (c) 10- 28 (d) 16.5 – 24.75
12. Convert each of the following numbers of various number systems into Ex-3 code.
(a) 1011 base 2 (b) (436) base 8 (c) (3A) base 16 (d) (1100.011) base 2
13. Perform the following addition operation in ex-3 code.
(a) 46 +33 (b) 72.6 + 15.2
14. Convert the following gray code to binary.
(a) 101101 (b) 10101111 (c) 101011
15. Convert the following binary code to gray code.
(a) 101101 (b) 10101111 (c) 101011
- 16 Convert the following binary number to gray code.
(a) 11011001 (b) 11 10101111 (c) 10110111111
18. What is the difference between non weighted code and weighted code .
- 19.What is the advantage of compliment method while designing arithmetic ckts.
- 20.What do you understand by ALPHA NUMERIC CODES and how a computer handle non numerical information.