## Lab Manual 1

**Digital Logic Design**

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## BCD Conversion

## (11110)2

## Hexadecimal multiplication

## 75)16\*DA)16

## 6AB)16\*A9)16

## Decimal multiplication with fraction

## multiplicand = (1011.1)2and multiplier = (10.1)2

## Octal addition

## 123)8+7651)8

## Hexadecimal subtraction

## BD.AA)16-89.FC)16

## Decimal to Hexadecimal conversion

## Convert 60010 into a hexadecimal number.

## Hexadecimal to octal conversion

## Convert 1BC16 into an octal number.

## Base 4 to decimal

## Convert [30213]4 having base 4 to the corresponding decimal number.

## Base 2 to 16

## Convert binary number 1101010 into hexadecimal number.

## Subtraction through 2’s complement

## (i) 110110 - 10110

## (ii) 10110 – 11010