Decimal no. system :

No : natural(1,2,3)

0,1,2,3,4,5,6,7,8,9[10 digits]

53=50+3

=5X10+3X1

5X10^1 + 3X10^0

256 = 200 + 50 + 6

= 2X100 + 5X10 + 6X1

= 2X10^2 + 5X10^1 + 6X10^0

Binary No. system ( 0,1 )

101 = 1X2^2 + 0X2^1 + 1X2^0

= 4 + 0 + 1

= 5

Hexadecimal no. system ( 6+10 = 16digits) = 0,1,2,3,4,5,6,7,8,9

10 = a

11 = b

12 = c

13 = d

14 = e

15 = f

Ad = 10+13

=10X16^1 + 13X16^0 = 160+ 13 = 173

Fe = 15 + 14 = 15X16^1 + 14X16^0 15

= 240+14 = 254 16 = 90 + 150 = 240

FF = 15X16^1 + 15X16^0

= 240+15 = 255

#a a f

#f f a c d e

#fac 3 9 5