1. write all 14 data types discussed in class in sequence

Data Type in C#

byte, ushort, uint, ulong,

sbyte, short, int, long,

float, double, decimal,

bool,

char,string

2. write list of 4 number systems and their digits range

Binary number system Base of 2 and digits are 0,1

Octal number system Base of 8 and digits are 0,1,2,3,4,5,6,7

Decimal number System Base of 10 and digits are 0,1,2,3,4,5,6,7,8,9

Hexa-Decimal number System Base of 16 and digits are 0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F

3. convert decimal : 55, 24, 18 to binary

(55)10 = (110111)2

(24)10 = (11000)2

(18)10 = (10010)2

4. convert binary : 10110, 1011, 101110 to decimal

(10110)2=(22)10 1X24+0X23+1X22+1X21+0X20  i.e.,16+0+4+2+0=22

(1011)2=(11)10 1X23+0X22+1X21+1X20  i.e.,8+0+2+1=11

(101110)2=(46)10 1X25+0X24+1X23+1X22+1X21+0X20  i.e.,32+0+8+4+2+0=46