Day-1 Evening Assignment

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

A:

* byte
* ushort
* uint
* ulong
* sbyte
* short
* int
* long
* float
* double
* decimal
* bool
* char
* string

1. write list of 4 number systems and their digits range?

A: There are 4 number systems in the programming world, they are:

* Binary :  
  The Binary Range of digits varies from -127 to 127.  
  it has only 2 digits i.e., 0 and 1.
* Octal :  
  The Octal Range of digits varies from -2047 to 2047.  
  it has 8 digits i.e., 0,1,2,3,4,5,6,7.
* Decimal :  
  The Decimal Range of digits varies from -4999 to 4999.  
  it has 10 digits i.e., 0,1,2,3,4,5,6,7,8,9.
* Hexadecimal :  
  The Hexadecimal Range of digits varies from -32767 to 32767.  
  it has 16 digits i.e., 0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F.

1. convert decimal values: 55, 24, 18 to binary?

A: 5510 🡺 (110111)2

2410 🡺 (11000)2

1810 🡺 (10010)2

1. convert binary values: 10110, 1011, 101110 to decimal?

A: 101102 🡺 22

10112 🡺 11

1011102 🡺 46