Computer memory

Smallest unit of information: bit Two possible values (1,0)

Groups of 8 bits are one byte

Value of a byte set by bits in byte

If the bit is 1 at the position then that value is included in the byte

0 the number is not included while 1 it is

Hex is a base 16 number system:

1-9 are the same in decimal and hexadecimal

A =10

B=11

C=12

D=13

E=14

F=15

Hexadecimal

1 byte is 2 nibbles

By breaking a byte into 2 max value of the byte is FF while in decimal its 255 hence hex is easier

To represent 1000

We need 2bytes

Int: 4 bytes

Char: 1 byte

Float: 4 bytes

Double: 8 bytes

|  |  |
| --- | --- |
| Address | Value |
| 0xFF04 | 05 |
| 0xFF03 | AZ |
| 0xFF02 | AC |
| 0xFF01 | AA |

011011100111 = 6E7 in hex