BIN, DEC, HEX

BINARY :

* 1,0
* On, Off
* Transistors
* Simple
* Patterns
* Base 2

DEC:

* Base 10
* 0 1 2 3 4 5 6 7 8 9
* Place Value:
  + 7946 = 10^4
  + 7 \* 10^3 + 9 \* 10^2 + 4 \* 10 + 6 \* 10^0

OCTAL:

* Base 8
* 0 1 2 3 4 5 6 7

Hexadecimal:

* Base 16
* 0 1 2 3 4 5 6 7 8 9 A B C D E F

Base notation:

* 1 3 4 in 7 base is 1347

Converting:

* 110101 -> 53
* 374 -> 252
* 4001 -> 501
* A217 -> 41495
* 693 -> 828

1. 3710 = 1001012
2. 34225 = 48710
3. 630916 = 18A5

ArrayList

* Starts with size 0
* import java.util.ArrayList;
* implements List, LinkedList, Collection, Iterable interfaces
* generic vs nongeneric
* nongeneric =mult types in a list, instantiated using ArrayList list = new ArrayList[];
* generic = one type, ArrayList<type> list = new ArrayLisy<type>();