CS 2110 Notes 1/23

**Constants** – not permitted to change

* ALL CAPS
* Use final keyword to indicate constant
* i.e. final int CAT\_LEG\_COUNT = 4;

**If statements:**

if(conditionalStatement) {

statement(s);

} else if {

statement(s);

} else {

statement(s);

}

**Switch statements:**

switch(variable) {

case value:

statement(s);

break;

case value2:

statement(s);

break;

default:

statement(s);

}

**For loops:**

for(int i = 0; i < 10; i++) {

//statement(s) using i;

}

for(Cat c : myCatList) {

//statement(s) using c;

}

While and do-while loops

while(conditionalStatement) {

//statement(s);

}

do {

//statement(s);

} while(conditionalStatement);

**Arrays are reference objects**

* Can store primitive or reference data types
* Store a static type of data and have static size
  + Size of an array cannot change at runtime
  + To resize an array, you must create a new one
* Arrays are 0-indexed, arr[0] is first element

i.e. int[] myArray = new int[5];

myArray[0] = 12;

myArray[4] = 34;

int[] myArray = new int[] {12, 34, 56, 78, 43};

//Java creates an array of the right size

System.out.println(Arrays.toString(myArray));

//Arrays is a special class with static methods